ORDER NO. AD9502056A2

Service Manual

Mini Cassette

Stereo Radio Cassette Player

RQ-SX1V

Please file and use this manual together with the service manual for Model No. RQ-SX1V, Order No. AD9412364C7.

Note: • This sevice manual is provided to indicate the main differences between the original model No. RQ-SX1V (G) and the subsequent model No. RQ-SX1V (EB, EG).

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(EB)	Grate Britain.	(K)
(EG)	Europe.	

CHANGES

■ SPECIFICATIONS

RQ-SX1V (G)

■ General

Power Requirement:	Rechargeable Battery; DC 1.2V with an included Panasonic Rechargeable Battery (RP-BP61SYS) × 1
Charger:	Input; AC 100 – 120V/220 – 240V 50/60Hz 6VA Output; DC 550mA 1.2V (included) (RP-BC161SYB)

■ Radio Section

Radio Frequency Range:	AM; 530~1600kHz (10kHz steps) 531~1602kHz (9kHz steps)

RQ-SX1V (EB, EG)

■ General

Power Requirement:	Rechargeable Battery; DC 1.2V with an included Panasonic Rechargeable Battery (RP-BP62EYS1) × 1
Charger:	Input; AC 220V, 50Hz, 4W (RP-BC155EY-0) (included): (EG) Input; AC 240V, 50Hz, 4W (RP-BC155EBYA) (included): (EB) Output; DC 1.2V, 350mA

■ Radio Section

Radio Frequency Range:	AM; 522~1611kHz

■ CHANGE IN REPLACEMENT PARTS LIST (on page 33~38.)

Notes: • Mentioned in this parts list is only those different from Model No. RQ-SX1V (G). All other parts are the same as for RQ-SX1V (G).
• Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Futhermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
• The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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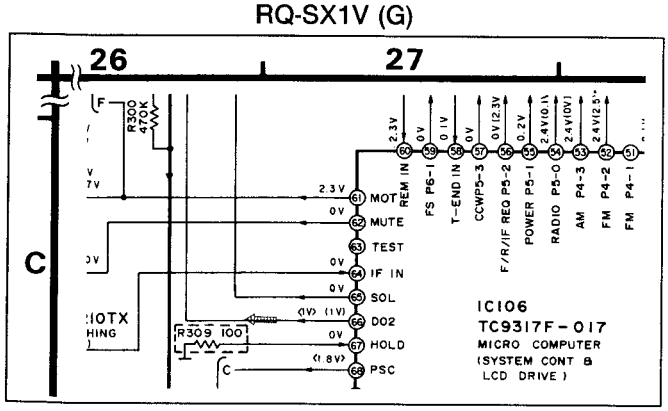
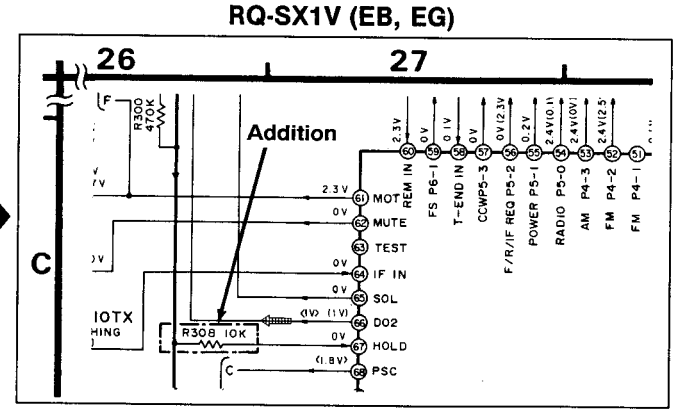
Ref. No.	Change of Part No. RQ-SX1V (G) → RQ-SX1V (EB, EG)		Part Name & Description	Remarks
CABINET AND CHASSIS				
15	RYK0468B-K	**RYK0468C-K**	CABINET ASS'Y	
FILTER(S)				
CF101	RLFECFM3450A	**RLFECFM3459A**	AM FILTER	
JACK(S)				
JK1	RJJ35T02-1C	**RJJ35T02-2C**	HEADPHONES	
RESISTORS				
R308	—	**ERJ2GEJ103X**	1/16W 10KΩ	Addition
R309	ERJ2GEJ101X	—	1/16W 100Ω	Deletion
PACKING MATERIAL				
P1	RPK0517	**RPK0516**	PACKING CASE	
ACCESSORIES				
A1	RQT2716-G	**RQT2717-B**	INSTRUCTION MANUAL	(EB)
		RFKSQSX1VEG	INSTRUCTION MANUAL ASS'Y	(EG)
A2	RFA0310-K2	**RFA0474-K**	DRY CELL BATTERY CASE	
A2-1	RKK0053-K	**RKK0071-K**	BATTERY COVER	
A5	RJP0K2ZA	—	AC PLUG ADAPTOR	Deletion
A6	RP-BP61SYS	**RP-BP62EYS1**	RECHARGEABLE BATTERY	
A9	RP-BC161SYB	**RP-BC155EBYA**	CHARGER	(EB) ⚠
		RP-BC155EY-0	CHARGER	(EG) ⚠
A10	—	**RQA0013A**	WARRANTY CARD	Addition
〈PRINTED CIRCUIT BOARDS ASS'Y〉				
PCB1	REP1900B	**REP1900D**	MAIN P.C.B. ASS'Y	(RTL)

■ SCHEMATIC DIAGRAM (RQ-SX1V Service Manual Page 27.)

RQ-SX1V (G)

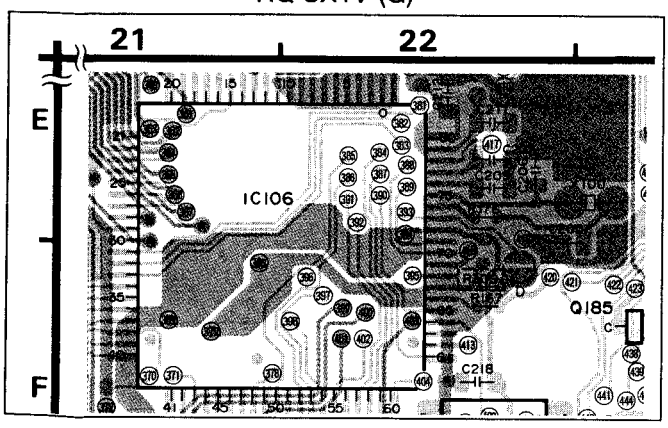


RQ-SX1V (EB, EG)

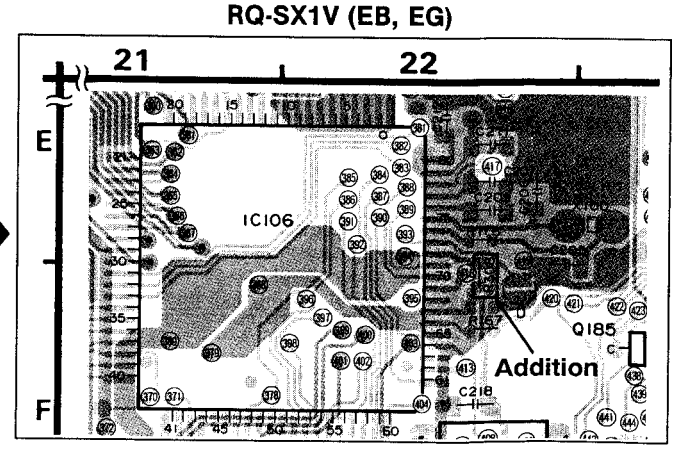


■ PRINTED CIRCUIT BOARD (RQ-SX1V Service Manual Page 20.)

RQ-SX1V (G)



RQ-SX1V (EB, EG)



Printed in Japan
H950206800 NH/YU/KK

ORDER NO. AD9412364C7
A1

Service Manual

Stereo Radio Cassette Player

Mini Cassette

RQ-SX1V

DOLBY B NR*

AR90 (AR90IV) MECHANISM SERIES

Colour

(K)... Black Type

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A.	(K)
(PC)	Canada.	
(G)	Third Region.	

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

■ SPECIFICATIONS

General:

Power Requirement: Battery; 1.5V (one "AA" size battery) (Panasonic R6/LR6, UM-3 or equivalent, not included)
Rechargeable Battery; DC 1.2V with an included Panasonic Rechargeable Battery (RP-BP61SYS) × 1

Power Output: 5mW + 5mW. RMS (max.)

Output: Headphones 16Ω φ3.5

Dimensions: (W × H × D) 108.0 × 77.5 × 23.0mm ($4^{1}/_{4}$" × $3^{1}/_{16}$" × $^{15}/_{16}$")

Weight: 182g (6.4oz.) (with rechargeable battery)

Charger:
- Input; AC 120V 60Hz 5W
  Output; DC 350mA 1.2V
  (included) (RP-BC156PY): (P)
  (RP-BC156PCY): (PC)
- Input; AC 100–120V/220–240V 50/60Hz 6VA
  Output; DC 550mA 1.2V
  (included) (RP-BC161SYB): (G)

Radio Section:

Radio Frequency Range:
- AM; (P, PC) 520~1710kHz (10kHz steps) / 522~1611kHz (9kHz steps)
- (G) 530~1600kHz (10kHz steps) / 531~1602kHz (9kHz steps)
- FM; (P, PC) 87.9~107.9MHz (200kHz steps) / 87.5~108MHz (100kHz/50kHz steps)
- (G) 87.5~108MHz

Intermediate Frequency: FM; 10.6MHz
AM; 450kHz

Sensitivity: FM; 3.5μV/0.1mW (−3dB Limit sense)
AM; 199.5μV/m/0.1mW output

Tape Section:

Frequency Response: 15~20,000Hz (with a normal, CrO_2 or metal type of tape)

Motor: Electrical governor motor

Track System: 4-track 2-channel stereo playback

Tape Speed: 4.8cm/s

Note: Design and specifications are subject to change without notice.
Weight and dimensions are approximate.

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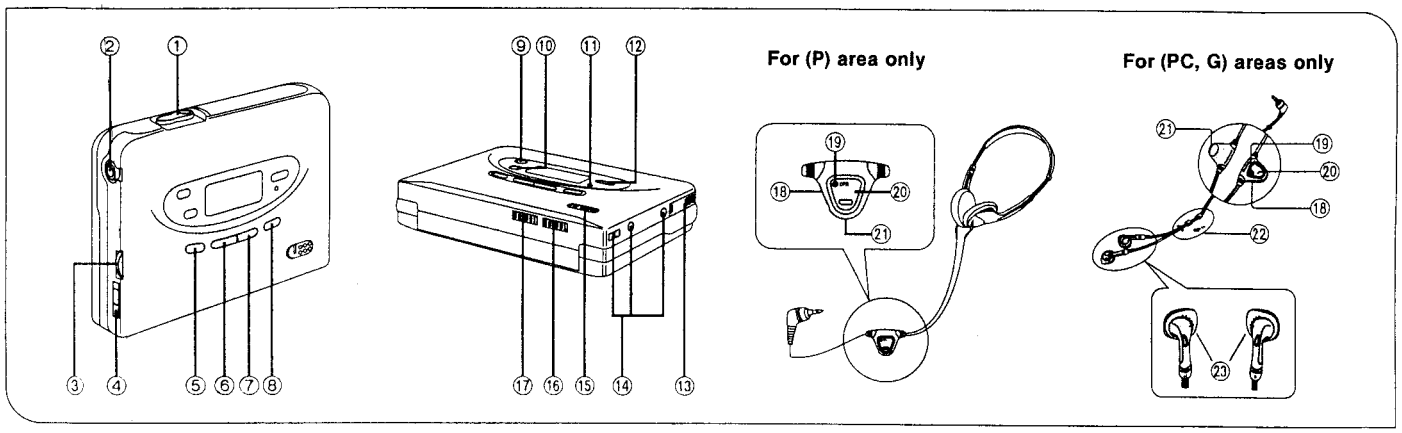
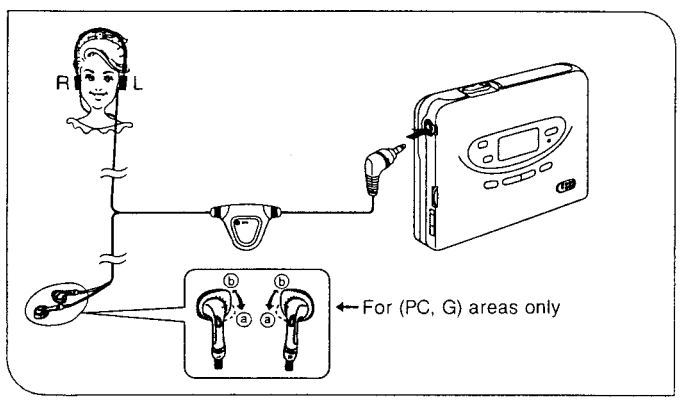
■ LOCATION OF CONTROLS



① Cassette compartment cover open lever (OPEN)
② **Headphones jack (∩) 16Ω φ3.5 (P) area only**
Earphones jack (∩) 16Ω φ3.5 (PC, G) areas only
③ Volume control (VOLUME)
④ Tone selector (OFF, S-XBS, TRAIN)
⑤ Rewind, TPS/– button (REW, TPS/–)
⑥ Stop, radio off button (■ RADIO OFF)
⑦ Play, tape direction button (◄ ►)
⑧ Fast-forward, TPS/+ button (FF, TPS/+)
⑨ Mode, repeat button (MODE)
⑩ Memory select, set button (• M.SEL ▬ SET)
⑪ Operation, battery check indicator (OPR/BATT)
⑫ Radio on, band select button (RADIO ON/BAND)
⑬ Rechargeable battery compartment cover
⑭ Battery case connection parts
⑮ Hold switch (HOLD)
⑯ Dolby noise reduction selector (DD NR)
⑰ **FM sensitivity, play mode selector (FM SENS., B. SKIP/REV MODE): (P, PC) areas only**
Stereo mode reverse mode selector (STEREO MODE, B. SKIP/REVERSE MODE): (G) area only
⑱ Hold switch (HOLD)
⑲ Operation indicator (OPR)
⑳ Remote control button
㉑ Volume control (VOLUME)
㉒ **Slider (PC, G) areas only**
When not in use slide this up to prevent entanglement of the cord.
㉓ **Fitting ring (PC, G) areas only**

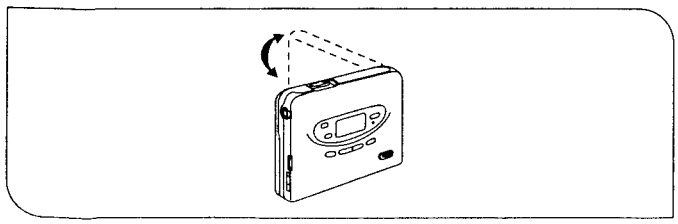
■ BEFORE USE

Connecting the stereo headphones



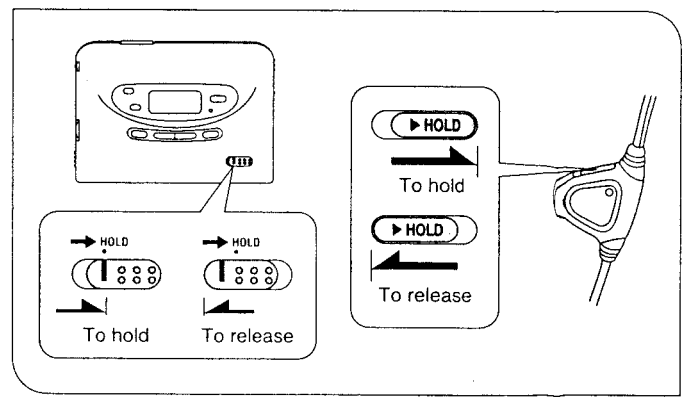
Unless the headphones are firmly inserted into the jack, the sound may become intermittent, or, operation using the remote controller may become impossible.
Since the cord of the headphones acts as an FM antenna, connect the headphones when storing frequencies of FM stations in the memory.
For (PC, G) areas only
The size of the earpiece can be adjusted. When it's too loose in the ear, turn the fitting ring to ⓐ, when it's too tight, turn to ⓑ. The right earphone cord is longer than the left and is adjustable for your convenience.

Antennas for radio broadcast



When listening to AM broadcast:
As the built-in ferrite antenna works, try various directions to catch optimum reception.
When listening to FM broadcast:
As the cord of the headphones acts as an antenna, use it as extended as possible, not coiled.

Release from the "HOLD" mode



With the "HOLD" function in effect, making every button ineffective, wrong operation and subsequent battery wear can be avoided.

Before operation, be sure to slide the HOLD switch on either the main unit or the remote controller with which you are going to operate, so that the "HOLD" function won't work.

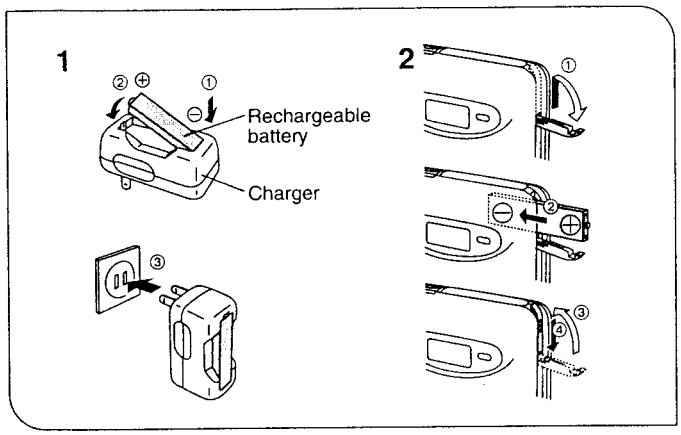
Both the main unit and remote controller have a HOLD switch, and each of them works individually.

■ POWER SOURCES

• For (P, PC) areas

This unit operates on either the rechargeable battery (included) or a dry cell battery.

Rechargeable battery



For initial use after purchase or after a long interval (more than three months), be sure to recharge the rechargeable battery before using.

Normally, 2 hours of recharging will give approximately 3 hours and 30 minutes of cassette tape playback (at 25°C). However, playback time may become shorter depending on the operating conditions, e.g. repeating fast-forward or rewind, etc.

1 Recharge the rechargeable battery.

2 Insert the charged battery into the unit.

BATTERY SERVICE LIFE (EIAJ)

	Playback (hour)	Radio (hour)
Panasonic UM-3/R6P	3.3	8.0
LR6 (Panasonic Alkaline)	9.0	20.30
Rechargeable battery	4.0	7
LR6 (Panasonic Alkaline) + Rechargeable battery	13.30	28

The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and environmental conditions, use these values as reference.

Dry cell battery

1 Insert one "AA" size battery (R6/LR6 or equivalent, not included) into the battery case.

2 Attach the battery case to the unit.

3 Turn the screw until it locks.

■ To extend the playback time

Install both rechargeable and dry cell batteries in the unit.

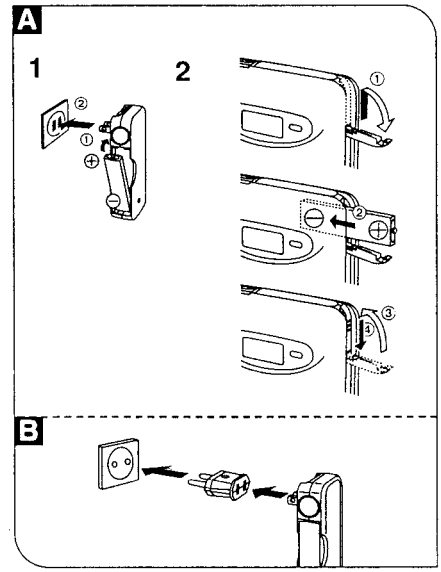
■ When the battery becomes weak

As the OPR/BATT indicator dims or turns off, recharge the rechargeable battery or replace the dry cell battery with a new one.

• For (G) area

This radio cassette player operates on either the rechargeable battery (included) or a dry cell battery.

Rechargeable battery A



Before use, make sure to check the voltage and the outlet configuration.
For initial use after purchase or after a long interval (more than three months), be sure to recharge the rechargeable battery.

Normally, 1 hour and 20 minutes of recharging will give approximately 4 hours of cassette tape playback (at 25°C). However, playback time may become shorter depending on the operating conditions, e.g. repeating fast-forward or rewind, etc.

1 Recharge the rechargeable battery.

2 Insert the charged battery into the unit.

■ If the plug doesn't fit your socket B

Use the AC plug adaptor (included).

Dry cell battery C

1 Insert one UM-3 battery (R6/LR6 or equivalent) into the battery case.

2 Attach the battery case to the unit.

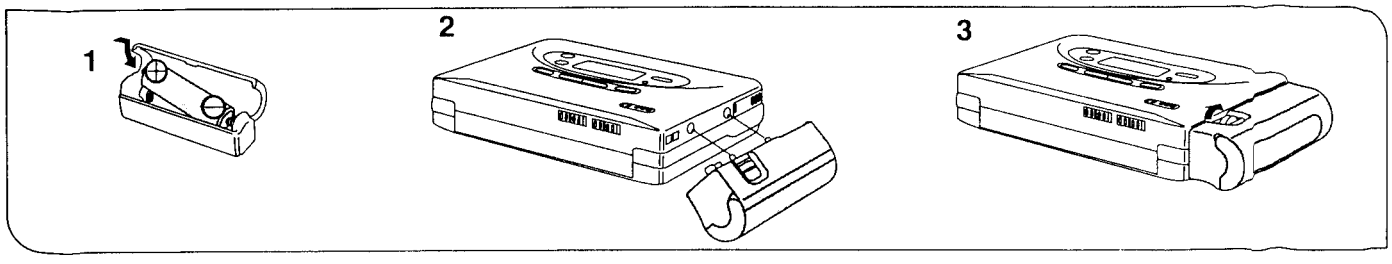
3 Turn the screw until it locks.

■ To extend the playback time

Install both rechargeable and dry cell batteries in the unit.

■ When the battery becomes weak

As the OPR/BATT indicator dims or turns off, recharge the rechargeable battery or replace the dry cell battery with a new one.



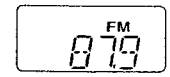
■ LISTENING TO RADIO

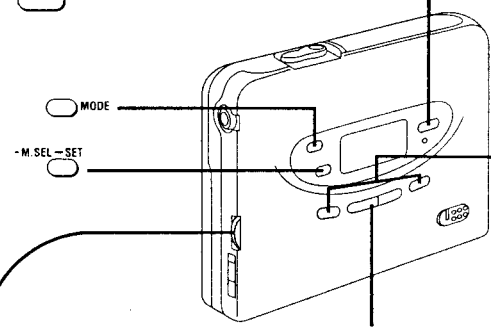
1 Switch on the radio.

RADIO ON/BAND

2 Select the band.

RADIO ON/BAND Each press changes the indication between AM and FM.

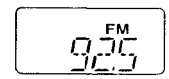




3 Select the desired station.

FF TPS/+: Frequency becomes higher.

REW TPS/−: Frequency becomes lower.



To reach the station faster:
Press and hold FF, TPS/+ or REW, TPS/− for more than 1 second, and the frequency indication starts to run fast. It stops when broadcast is received. To end this search, press FF, TPS/+ or REW, TPS/− one more time.

4 Adjust the volume.

To stop listening

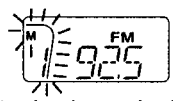
RADIO OFF

Storing radio stations in the memory

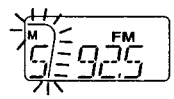
Frequencies of up to 18 radio stations (9 each AM and FM) can be stored in the memory with the following procedure.

1 Follow steps 1–3 above illustration.

2 Press MODE to have "M" indicated (flashing).



3 Press • M.SEL ▬ SET to give the received station a memory number.



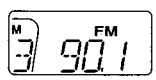
4 Press and hold • M.SEL ▬ SET for more than one second.

To store another station in the memory:
Repeat steps 1 through 4 above.

Listening to a station stored in the memory

1 Follow steps 1, 2 above illustration.

2 Press • M.SEL ▬ SET to select the desired station.



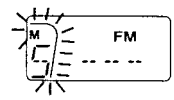
3 Adjust the volume.

To remove an unnecessary station from the memory

1 Follow steps 1, 2 above illustration.

2 Press • M.SEL ▬ SET to select the station you want to remove.

3 Press MODE to have "---" indicated.



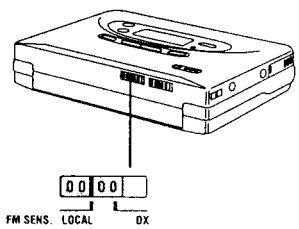
4 Press and hold • M SEL ▬ SET for more than one second.

You can select the station once again, when you store the station in the memory.

To receive FM broadcast clearly

LOCAL:
When the signal is too strong and the sound is distored.
Normally set this position.

DX:
When the reception is poor (excessive noise), set this position. The sound becomes monaural.

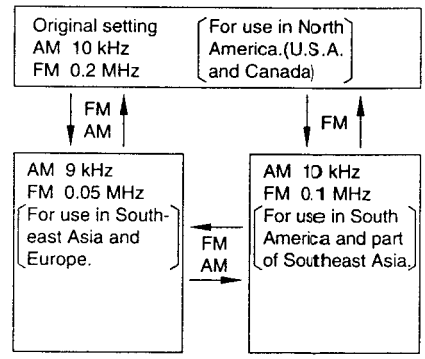


To adjust the AM/FM

Each country has allocated (assigned) broadcast frequencies to their particular needs. In order to accommodate the allocation in different countries, this unit has provided the tuning frequency in many increment steps.

Adjusting AM and FM allocation allows the unit to receive in another setting.
Every time the following procedure is performed, the allocation setting changes as follows in turn.

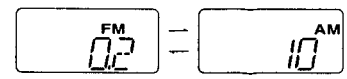
Which allocation should be adjusted, AM or FM?



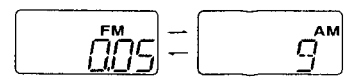
When the AM allocation is adjusted at 9 kHz steps, FM is fixed at 0.05 MHz steps.
When the FM allocation is changed, AM remains in 10 kHz allocation.

1 Press RADIO ON/BAND to switch on the power.

2 Press and hold MODE for more than five seconds.



3 While display is flashing, press FF, TPS/+ or REW, TPS/− to select the step.



4 While display is flashing, press and hold • M.SEL ▬ SET for more than five seconds.

To return to the previous frequency step:
Follow steps 1 through 4 above.

Note:
Converting the frequency step erases the stations previously stored in the memory.

Note:
If a cassette tape is inserted while listening to the radio, the sound pauses for about two seconds.

• For (G) area

Storing radio stations in the memory

Frequencies of up to 18 radio stations (9 each AM and FM) can be stored in the memory with the following procedure.

1 Press RADIO ON/BAND to switch on the power.

2 Press RADIO ON/BAND to select the band.
Each press changes the indication between AM and FM.

3 Press MODE to have "M" indicated (flashing).

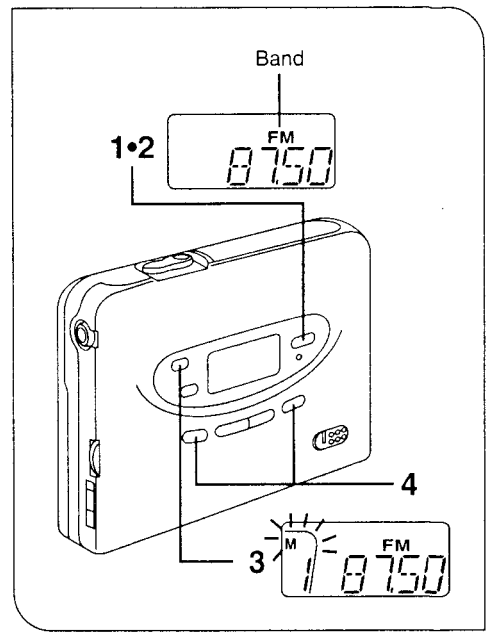
4 Press FF TPS/+ or REW TPS/– to select the desired station.
Each press changes the frequency one step at a time.
FF TPS/+: Frequency becomes higher.
REW TPS/–: Frequency becomes lower.

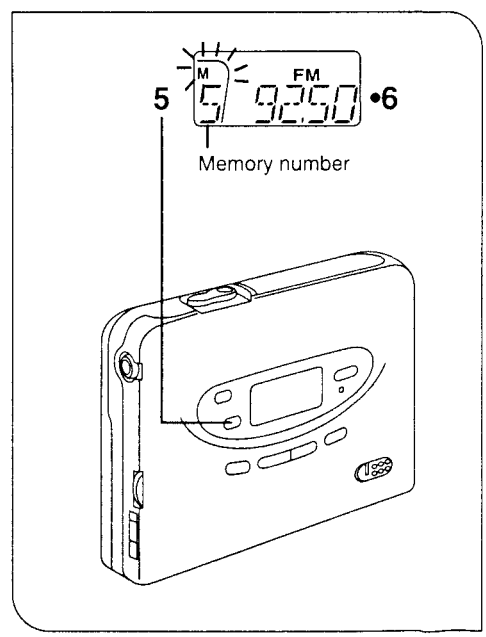
To reach the station faster:
Press and hold FF TPS/+ or REW TPS/– for more than 1 second, and the frequency indication starts to run fast. It stops when broadcast is received. To end this search, press FF TPS/+ or REW TPS/– one more time.

5 Press • M.SEL ➡ SET to give the received station a memory number.

6 Press and hold • M.SEL ➡ SET for more than one second.

To store another station in the memory:
Repeat steps 1 through 6 above.





Listening to a station stored in the memory

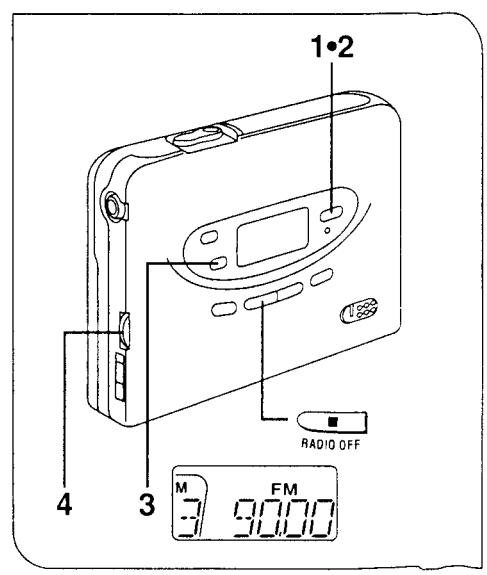
1 Press RADIO ON/BAND to switch on the power.

2 Press RADIO ON/BAND to select the band.
Each press changes the indication between AM and FM.

3 Press • M.SEL ➡ SET to select the desired station.
As the button is pressed, the stations stored in the memory are received in order from small to large memory numbers.

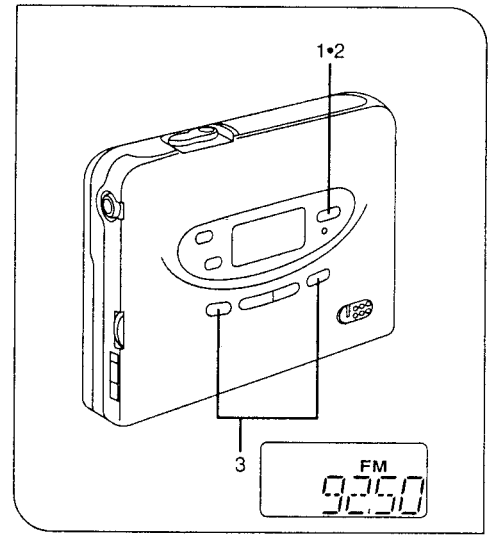
4 Adjust the volume.

■ To stop listening
Press RADIO OFF to switch off the power.



■ To listen to a station not stored in the memory

1. Press RADIO ON/BAND to switch on the power.
2. Press RADIO ON/BAND to select the band.
   Each press changes the indication between AM and FM.
3. Press FF TPS/+ or REW TPS/− to select the desired station.
   FF TPS/+: Frequency becomes higher.
   REW TPS/−: Frequency becomes lower.



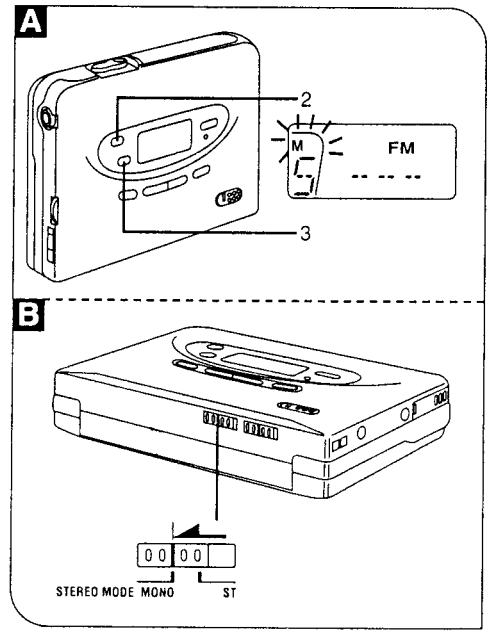
■ To remove an unnecessary station from the memory A

1. Tune in the station you want to remove (see page 26).
2. Press MODE to have "---" indicated.
3. Press and hold • M.SEL ▬ SET for more than 1 second.

■ When there is noise during FM reception B

Set the STEREO MODE selector to the MONO position. Though the sound becomes monaural, noise is reduced.

Note:
If a cassette tape is inserted while listening to the radio, the sound pauses for about two seconds.



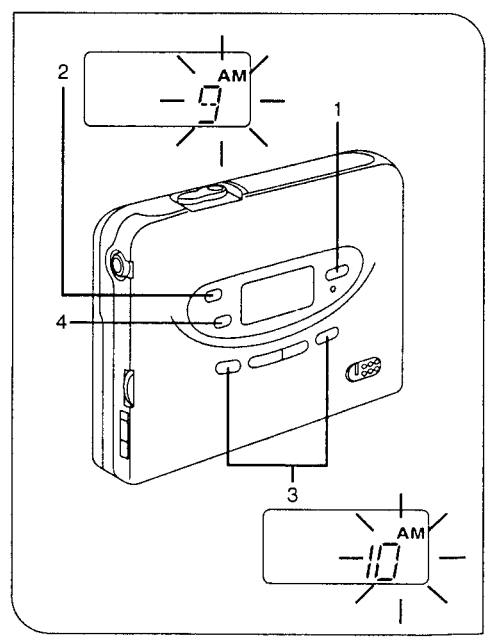
■ To convert the AM frequency step

At the time of purchase, the AM band frequency changes by the step of 9 kHz. It can be converted from 9 to 10 kHz to receive radio stations in a different country or area, which cannot be tuned in with the 9 kHz step.

1. Press RADIO ON/BAND to switch on the power.
2. Press and hold MODE for more than 5 seconds.
3. Press FF TPS/+ or REW TPS/− to select the step.
   Each press changes the indication between "9" and "10".
   "9": 9 kHz step. For the use in south-east Asia or Europe.
   "10": 10 kHz step. For the use in North and South America or part of south-east Asia.
4. Press and hold • M.SEL ▬ SET for more than 5 seconds.

To return to the previous frequency step:
Follow steps 1 through 4 above.

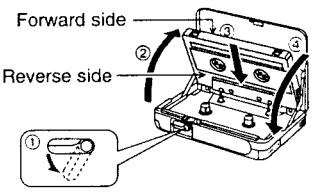
Note:
Converting the frequency step erases the stations previously stored in the memory.



■ LISTENING TO CASSETTE TAPE

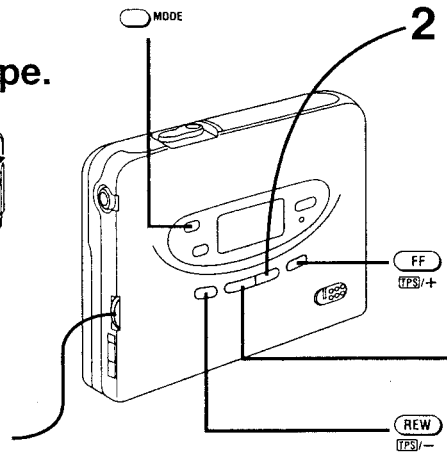
Either normal, CrO_2 or metal cassette can be used. The type of cassette is automatically detected.

1 Insert a cassette tape.

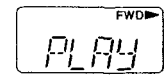


Once the cover is closed, slack of the cassette automatically gets rewound. And playback will be expected to start from the forward side.

3 Adjust the volume.



2 Play start.



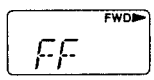
Unless the cover is opened and closed, playback starts from the side that was played when the unit was switched off.
The indication informs which side of the cassette is in play:
FWD ▶: Forward side
◀ REV: Reverse side

To change the side to play

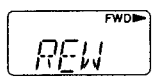
Press ◀ ▶ during playback.

To fast-forward or rewind the cassette tape

When the cassette is not in play:
Press FF, TPS/+ to fast-forward.

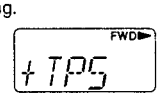


Press REW, TPS/– to rewind.

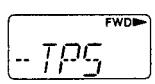


To find the beginning of a song (TPS: Tape Program Sensor)

When the cassette tape is in play:
Press FF, TPS/+ to skip the current song and start playing the following song.



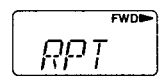
Press REW, TPS/– to go back to the beginning of the current song and start playing.



Notes:
Since making use of the silent part between songs, the repeating of the song in play and the TPS function, both described, may fail to function properly in the following situations:
- When the silent part between songs is less than 4 seconds or has noise.
- When the next silent part is less than 10 seconds away.
- When there is a long silent part or particularly low or small sound in the song.
- When there is a part where the sound gradually goes up or goes down in the song.
- When there is a long silent space during the song.

To repeat the song currently in play

Press MODE while the song is in play.

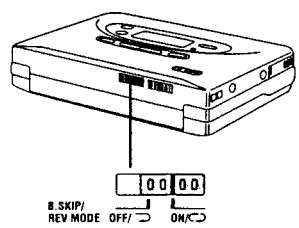


To release the above mode:
Press MODE one more time.

To change the play (reverse) mode

ON/⟲:
- Both sides of the cassette are played continuously.
- Blank-skip function works.

OFF/⇀:
- The forward and reverse sides of the cassette are played once and then the playback stops.
- Blank-skip function is released.



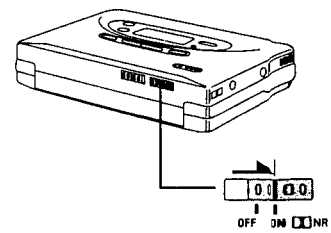
Blank-skip function (B.SKIP):
When silent part of more than 13 seconds is detected during playback, fast-forwarding automatically starts and then playback of the opposite side of the cassette starts from the beginning.

Notes:
- When playback is started at the point close to the end of the last song, it may not work properly.
- When small sound continues for more than 13 seconds, the unit may start fast-forwarding. When you listen to a classical music, set the B.SKIP selector to the OFF/⇀ position to release the Blank-skip function.

Dolby noise reduction (NR) system

This unit is equipped with the Dolby NR (type B), which reduces the high-frequency noise on the cassette tape to 1/3.

When a cassette recorded with Dolby NR (type B) is played, set the DOLBY NR selector to the ON position.

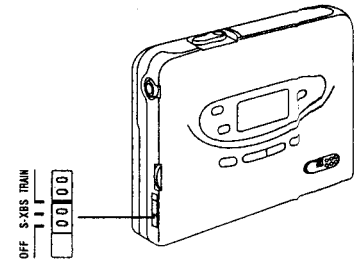


Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DOLBY are trademarks of Dolby Laboratories Licensing Corporation.

To change the tone

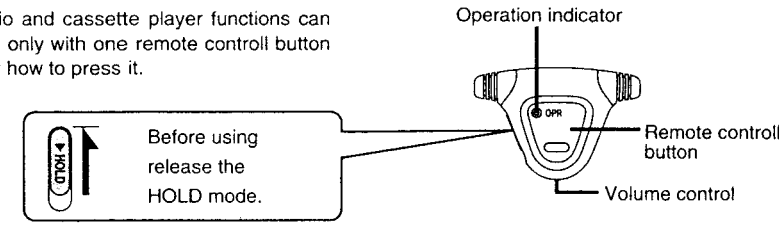
To listen with emphasized low sound (S-XBS):
Set the tone selector to the S-XBS position.
If the sound is distorted, turn down the volume a little.

To listen in the train (TRAIN):
Set the tone selector to the TRAIN position.
More natural quality is added to the sound to reduce the fatigue of listening for a long time. Also, leak of the noise from the headphones, which can be unpleasant in the train, is reduced.



■ USING REMOTE CONTROLLER

Various radio and cassette player functions can be operated only with one remote controll button by changing how to press it.



To adjust the VOLUME

Before adjusting VOLUME on the remote controll, be sure to set VOLUME on the main unit between the levels 5 and 7.

OPR indicator

This unit lights up to indicate that the main unit is in operation.
(It is not for the indication of battery wear.)

● Press once. ● ● Press twice. ● ● ● Press three. ▬ Press and hold for more than one second.
• When pressing the remote controll button twice or three times, do so as quickly and evenly as possible.

Operating the radio

Off mode	▬	Off mode
	●	Selecting the station.
	● ●	Selecting the band.

Operating the cassette player

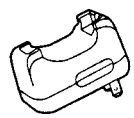
Off mode	●	Off mode
	▬	Play the opposite side.
	● ●	Skip the current song and start playing the next song (TPS +).
	● ● ●	Go back to the beginning of the current song and startplayback (TPS −).
	● ●	Fast-forward the cassette.
	● ● ●	Rewind the cassette.

Note:
The beep tone, which is emitted when the button is pressed once, indicates that a cassette is not inserted.

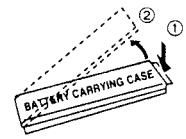
When the button is pressed once during fast-forwarding, rewinding, finding the beginning of a song, this unit will be changed to the playback mode.

■ ACCESSORIES

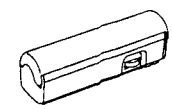
Stereo headphones with remote controller ..... 1 pc.
RFEV503PVKS (P)



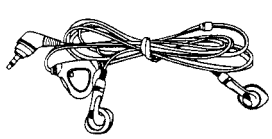
Charger ..... 1 pc.
RP-BC156PY (P)
RP-BC156PCY (PC)



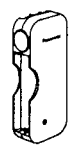
Rechargeable battery ... 1 pc.
RP-BP61SYS



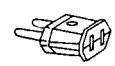
Dry cell battery case.... 1 pc.
RFA0310-K2



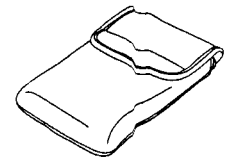
Stereo earphones with remote controller ..... 1 pc.
RFEV124PVKS (PC, G)



Charger ..... 1 pc.
RP-BC161SYB (G)



AC plug adaptor ..... 1 pc.
RJP0K2ZA (G)



Carrying bag ..... 1 pc.
RFC0027-K

■ PROCEDURE FOR THE REPLACEMENT OF THE MECHANISM BLOCK

• How to replace the mechanism block

The mechanism block is supplied without other parts as a semi-assembly. The head block, motor and belt are supplied separately from the mechanism block.
If the mechanism block is exchanged as a replacement assembly, follow the preparation procedure below.

Preparation procedure

Remove the head block, motor and belt from the mechanism to be replaced and replace those parts to the new mechanism block.
(Refer to the "OPERATION CHECKS AND MAIN COMPONENT REPLACEMENT PROCEDURES".

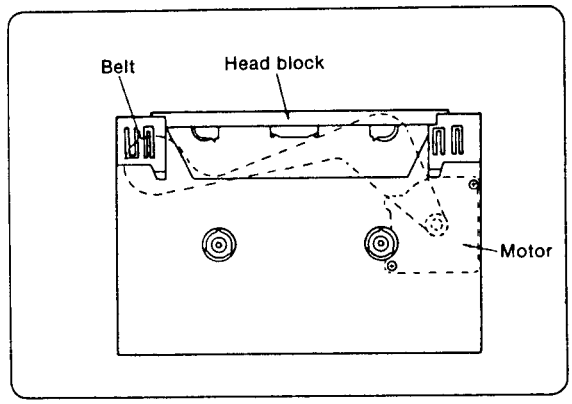
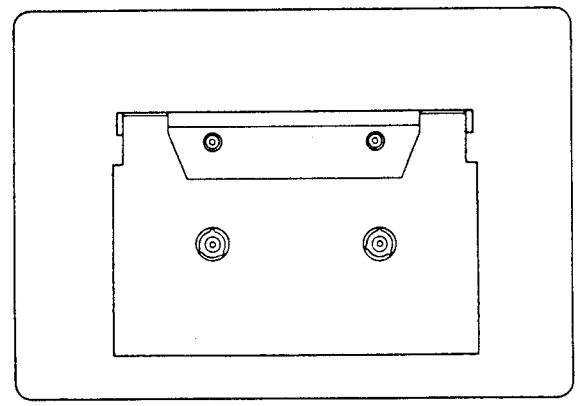


Fig. 1



Mechanism block

Fig. 2

※ The adjustment of the mechanism block is unnecessary after replacement.

• How to replace the head block

The head and pinch roller are supplied together in the head block. The pinch roller is also supplied separately.

Preparation procedure

The head block for replacement is not supplied with a holder as shown in the figure below. Therefore, remove the holder from the block to be repaired and mount it to the new head block. Then, proceed to replace the head block.
(Refer to the "OPERATION CHECKS AND MAIN COMPONENT REPLACEMENT PROCEDURES".

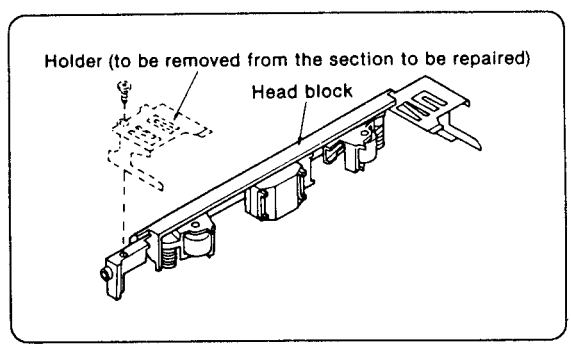


Fig. 3

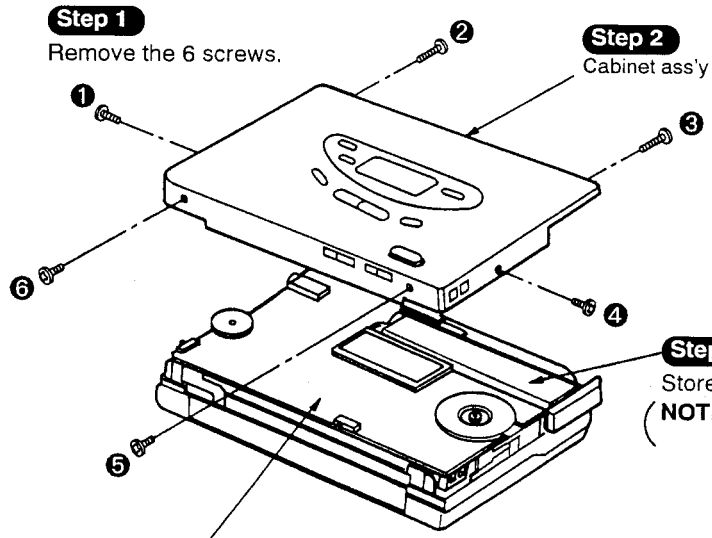
※ Head azimuth adjustment is unnecessary.

■ OPERATION CHECKS AND MAIN COMPONENT REPLACEMENT PROCEDURES

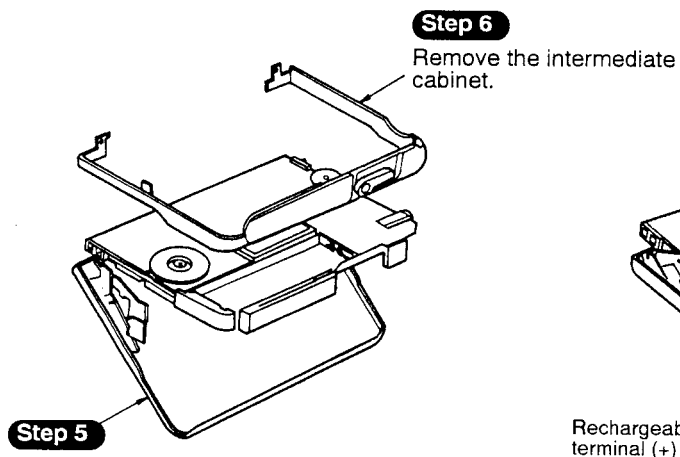
NOTE

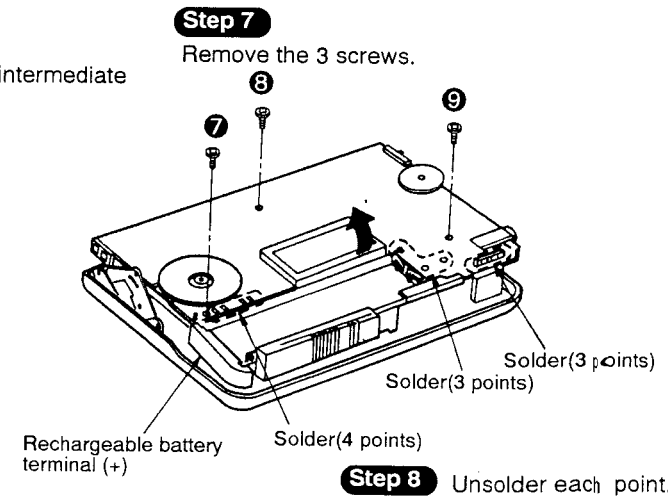
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Illustrated screws are equivalent to actual size.
4. [ ] indicates parts No.

1. Checking for the main P.C.B.



Removal for checking the main P.C.B.(Back side)





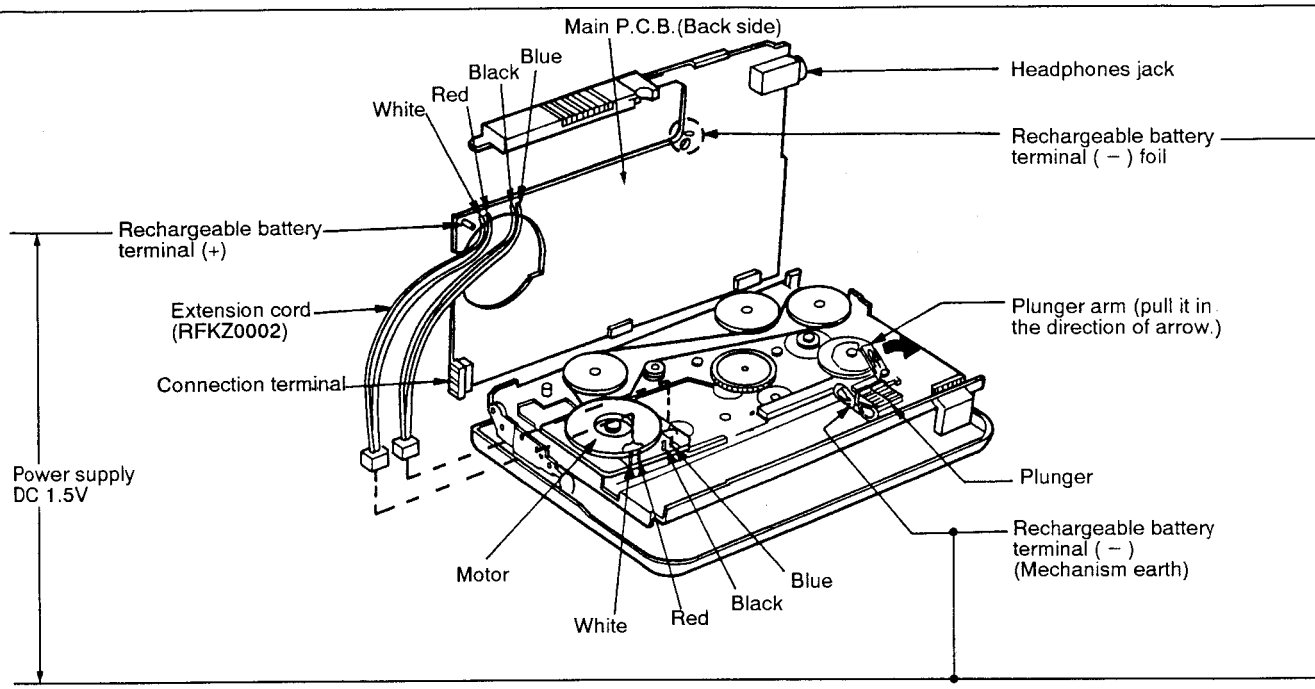
NOTE

When the main P.C.B. is removed, the rechargeable battery terminal(+) will also be removed.

❶, ❹~❻
Screw ϕ 1.4 × 2.5mm

❷, ❸
Screw ϕ 1.4 × 5mm

❼~❾
Screw ϕ 1.4 × 3mm

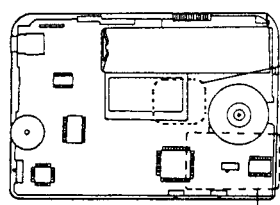


■ Short Points

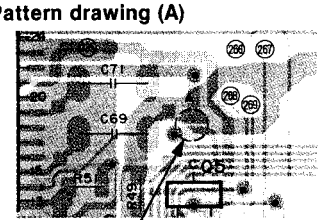
•Solder the short land to shrot the circuit.

Note:

Pattern Drawing (A) gives a view from the layer 1 side.
Pattern Drawing (B) gives a view from the layer 4 side.



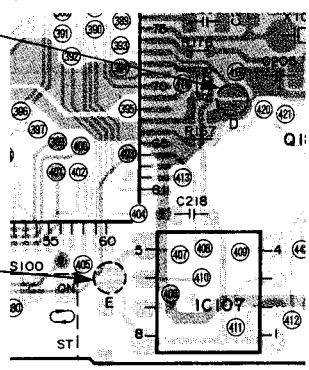
• Pattern drawing (A)



Short the short land Ⓐ.
(layer 1 side)
(Gauge No. C-10 on page 17.)

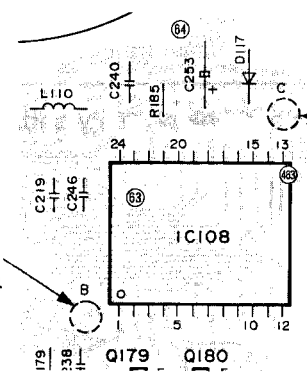
• Pattern drawing (B)

Short the short land Ⓓ.
(layer 4 side)
(Gauge No. F-22 on page 20.)



Short the short land Ⓔ.
(layer 4 side)
(Gauge No. F-22 on page 20.)

Short the short land Ⓑ.
(layer 4 side)
(Gauge No. F-24 on page 20.)



Short the short land Ⓒ.
(layer 4 side)
(Gauge No. E-24 on page 20.)

Mechanism Mode Setting

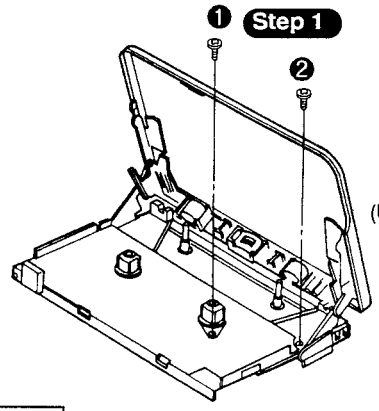
•Manually operate the plunger arm when checking the PLAY/STOP operation.
•Manually pulling the plunger arm once sets the FWD mode; twice, REV ; and, three times, STOP.

NOTE

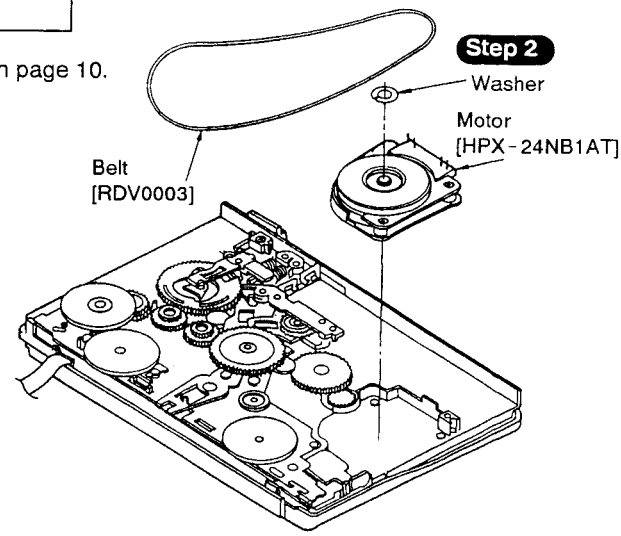
1. Operate the plunger arm manually. Even if the operation buttons are pressed, the plunger will not be actuated.
2. Even if the mechanism unit is switched to the FWD mode, the head change – over switch (IC1) will remain in the REV position, so set the REV mode to check the audio.
   Before checking the operation problems and adjustments, be sure to release the hold state.
   (Hold switch(S102): OFF)
3. After checking, unsolder the short land Ⓐ,Ⓑ,Ⓒ, Ⓓ and Ⓔ.

2. Replacement for the motor and belt

• Follow **Step 1** , **Step 2** , **Step 5** ~ **Step 8** in item 1 on page 10.

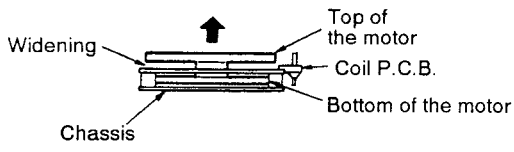


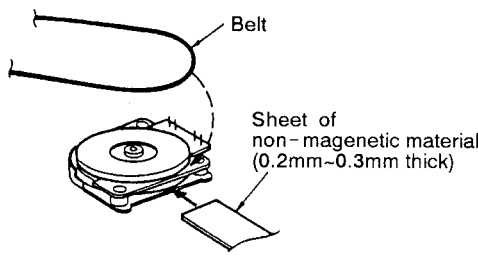
(Upset the set.)

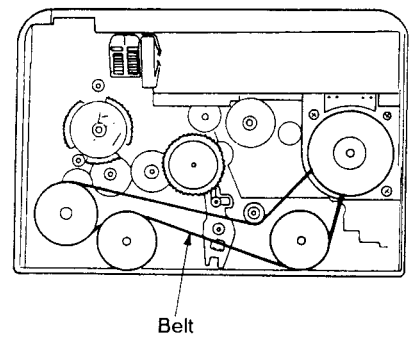


Installing the belt

• When install the belt to motor, push up the motor by insert the non-magnetic material sheet between bottom of the motor and the chassis, and install the belt between top of the motor and the coil P.C.B..



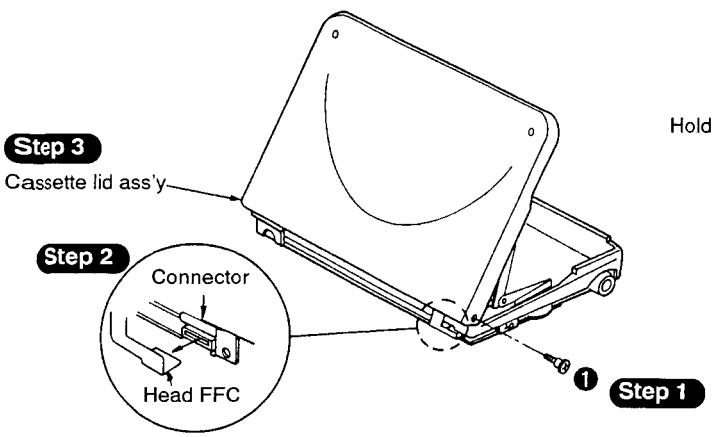


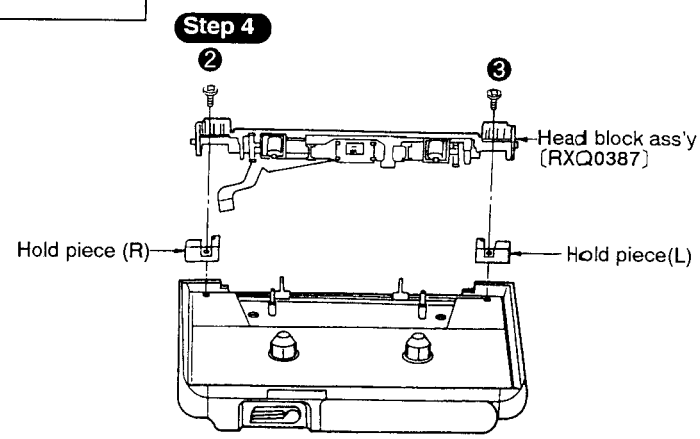


❶, ❷
Screw ϕ 1.4 × 1.8mm

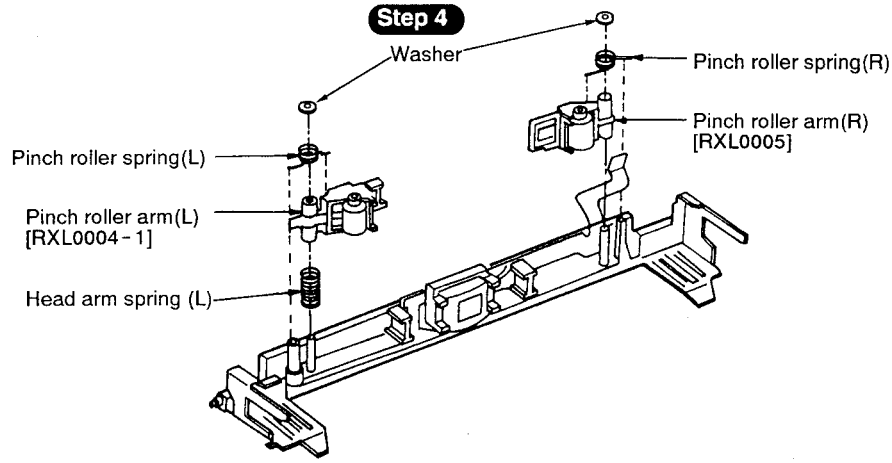
3. Replacement for the head block ass'y and pinch roller

• Follow **Step 1** , **Step 2** in item 1 on page 10.





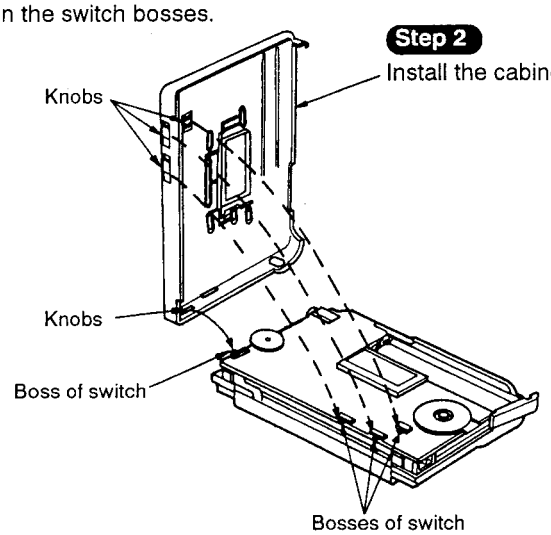
❶ Screw
❷, ❸ Screw ϕ 1.4 × 3mm



Assembling Procedure for cassette lid ass'y and cabinet ass'y after checking/parts replacement

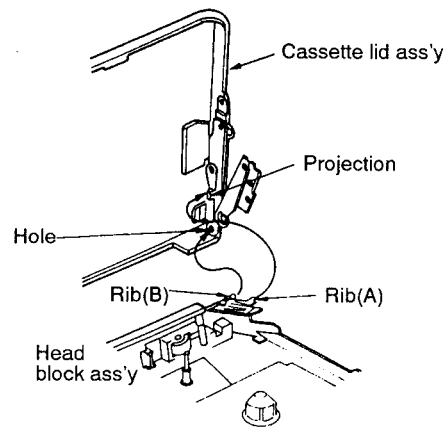
Step 1

Align the switch bosses.

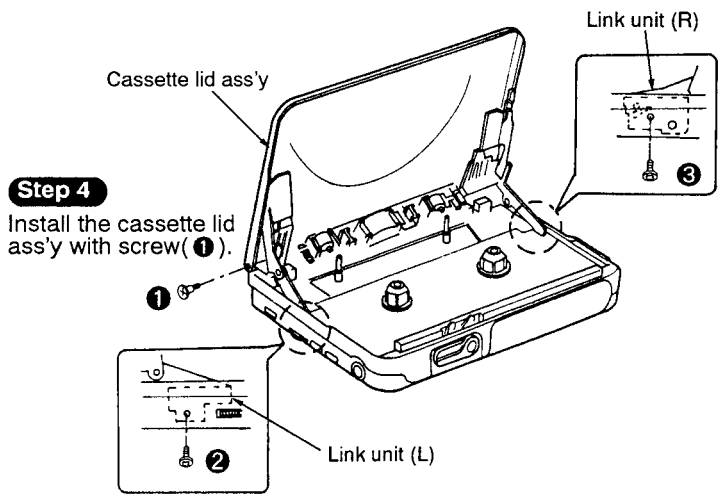


Step 3

Align the rib (A) and (B) of head block ass'y with the projection and hole of link unit, and then install the cassette lid ass'y.



Step 5 Install the link unit(L),(R) as shown below with screw(❷, ❸).



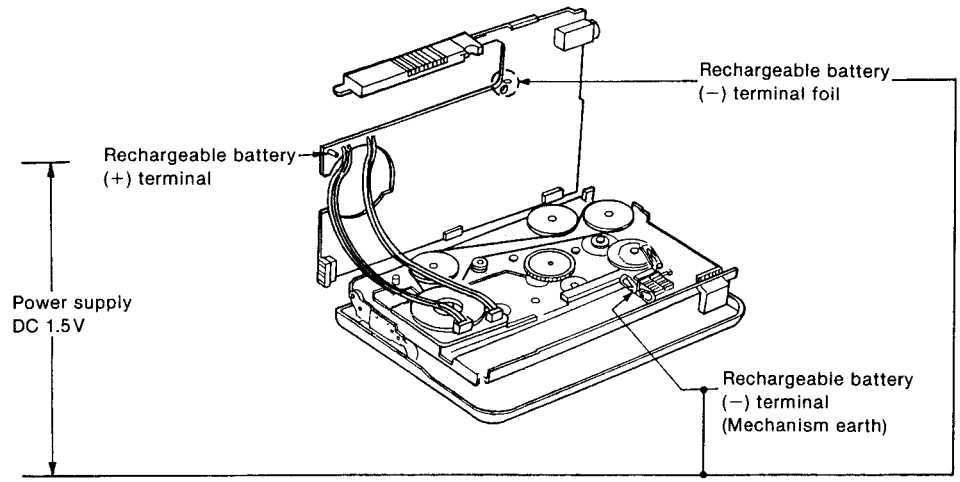
❶ Screw

❷, ❸ Screw ϕ 1.4 × 2.5mm

■ MEASUREMENTS AND ADJUSTMENTS

● Preparations for Tuner Board Adjustment

Strip the as shown below by following step 1. Checking for the main P.C.B. on pages 10 and 11.



● ADJUSTMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ADJUSTMENT	
1. Set volume control to maximum. 2. Set Dolby NR Switch to OFF. 3. Set STEREO MODE Switch to ST. 4. Set S-XBS/TRAIN Switch to OFF. 5. Set hold switch to off.	6. Set power source voltage to 1.5V DC. 7. Set Radio On/Band Switch to ON. 8. Output of signal generator should not be higher than necessary to obtain an output reading.

• CONTROL POSITIONS AND EQUIPMENT USED

1. DC electronic voltmeter (EVM)	3. Oscilloscope	5. Resistor (220kΩ~330kΩ)
2. Signal generator (FM, AM)	4. Frequency counter	

● RADIO SECTION

• FM STEREO ADJUSTMENT

ITEM	INPUT	OUTPUT	ADJUSTMENT POINT	REMARKS
FM STEREO ADJUSTMENT	87.9MHz, 66dB (P, PC) 87.5MHz (G) TP101 ...(+) TP102 ...(−) (Refer to Fig. 1)	TP202 ...(+) TP499 ...(−) (Refer to Fig. 1)	VR100	1. Set STEREO MODE Switch to ST. 2. Adjust VR100 for 19kHz±50Hz reading on frequency counter.

Note: Connect the TP202 and TP449 with the resistor (220kΩ~330kΩ).

• AM/FM RF ADJUSTMENT

BAND	SIGNAL GENERATOR		DISPLAY SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT POINT	REMARKS
	CONNECTION	FREQUENCY				
AM	Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	600kHz (P, PC) 594kHz (G)	600kHz (P, PC) 594kHz (G)	Headphones Jack (16Ω) (Refer to Fig. 2)	L105 (Refer to Fig. 3)	Adjust L105 for maximum output.
FM	TP101 ...(+) TP102 ...(−) (Refer to Fig. 1)	97.9MHz (P, PC) 98MHz (G)	97.9MHz (P, PC) 98MHz (G)	Headphones Jack (16Ω) (Refer to Fig. 2)	CT100 (Refer to Fig. 3)	Adjust CT100 for maximum output.

● TAPE SECTION

ITEM	TEST TAPE	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
TAPE SPEED ADJUSTMENT	QZZCWAT (3kHz, −10dB)	Headphones jack (16Ω) (Refer to Fig. 2)	VR2 (Refer to Fig. 3)	Playback the central part of the tape and adjust VR2 so that the tape speed is as follows. Forward: 2990±10Hz Reverse: 2940~3050Hz Make sure that the frequency range in within ±60Hz for between "Forward" and "Reverse" mode.

Note: The playback head is supplied on the head arm assembly. (See the Mechanism parts location on page 32.)
The assembly requires no adjustment.

• ADJUSTMENT POINTS

Note 1: This printed diagram shows a view the layer 1 side of pattern drawing (A) as shown in Fig. 1.

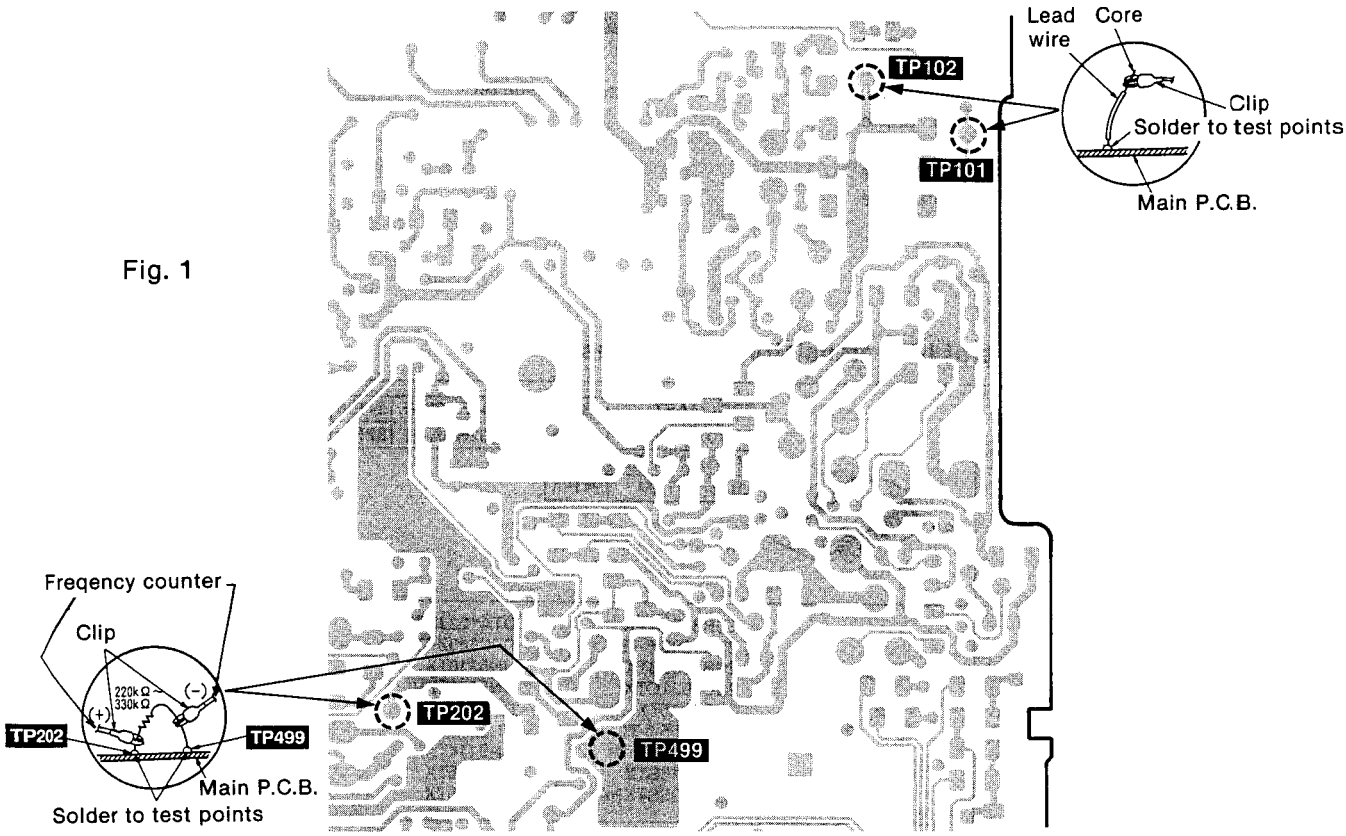


Fig. 1

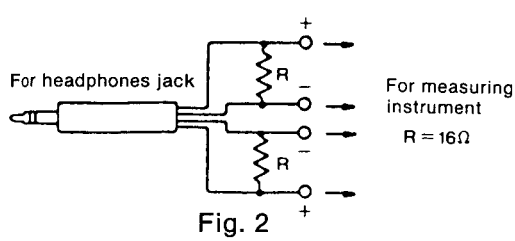


Fig. 2

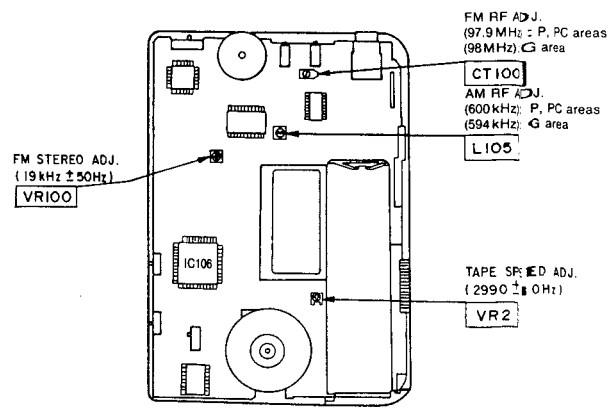


Fig. 3

Note 2: This adjustment points shown a front view of the IC106 mounting suface as shown in Fig. 3.

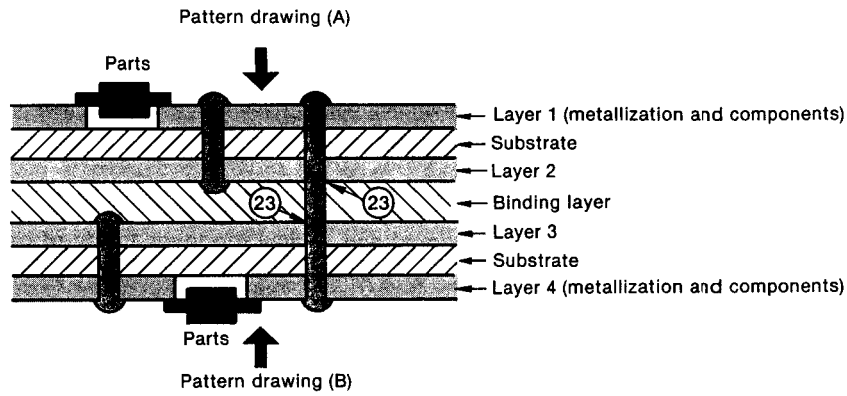
■ PRINTED CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

(This printed circuit board diagram may be at any time with the development of new technology.)

Note:

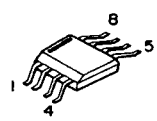
The PC board consists of four foil pattern layers.

- The metallization patterns in layers 1 and 2 are shown in pattern drawing (A), and those in layers 3 and 4 are shown in pattern drawing (B).
- In drawings (A) and (B), the visible layers (layers 1 and 4) are printed in black. The invisible layers (layer 2 and 3) are printed in blue.
- Black dots (●) in the drawings indicate through-hole connections between layers 1 and 2 or layers 3 and 4.
- Encircled numbers in the pattern drawings indicate through-hole connections across layers between patterns (A) and (B). [The same number in pattern drawings (A) and (B) indicates the same through-hole connection.
- These PC board drawings may be changed in the future to incorporate improvements.

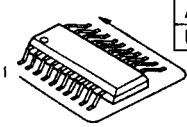


• Terminal guide of IC's, transistors and diodes

AK93C45LF-E1

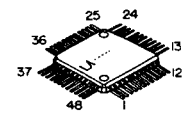


No. 1

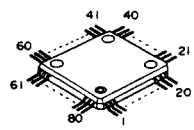


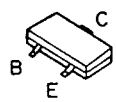
TD6134AFT	8 Pin	TB2004FN009E	24 Pin
AN7017SBE2	16 Pin	AN7232NSA-E2	32 Pin
AN7379NSHE2	24 Pin		
LB1674VTLM	24 Pin		

LA4592W-TFM



TC9317F-017



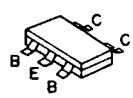


2SB815B7TX
2SB1295-6-TB
2SB1462STX
2SC3931CTX
2SC3935TX
2SC4555-6-TL
2SD1048X7TX
2SD2216STX
2SD2436STXRA

DTA123JETL
DTC143ZETL
UN5116TX
UN5215TX
UN9110TX
UN9113TX
UN9114TX
UN9115TX
UN9116TX

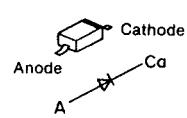
UN9210TX
UN9215TX
UN9216TX
UN9214TX

XN1212TX

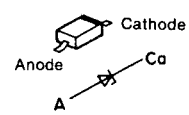


2SK1067-4-TL

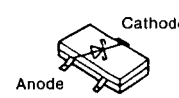
MA728TX
MA729TX



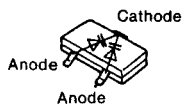
MA8120MTX



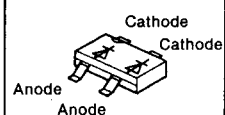
MA720TX



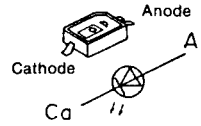
KV1560TR2-0
RVDSVC203ATX



MA713TXRA

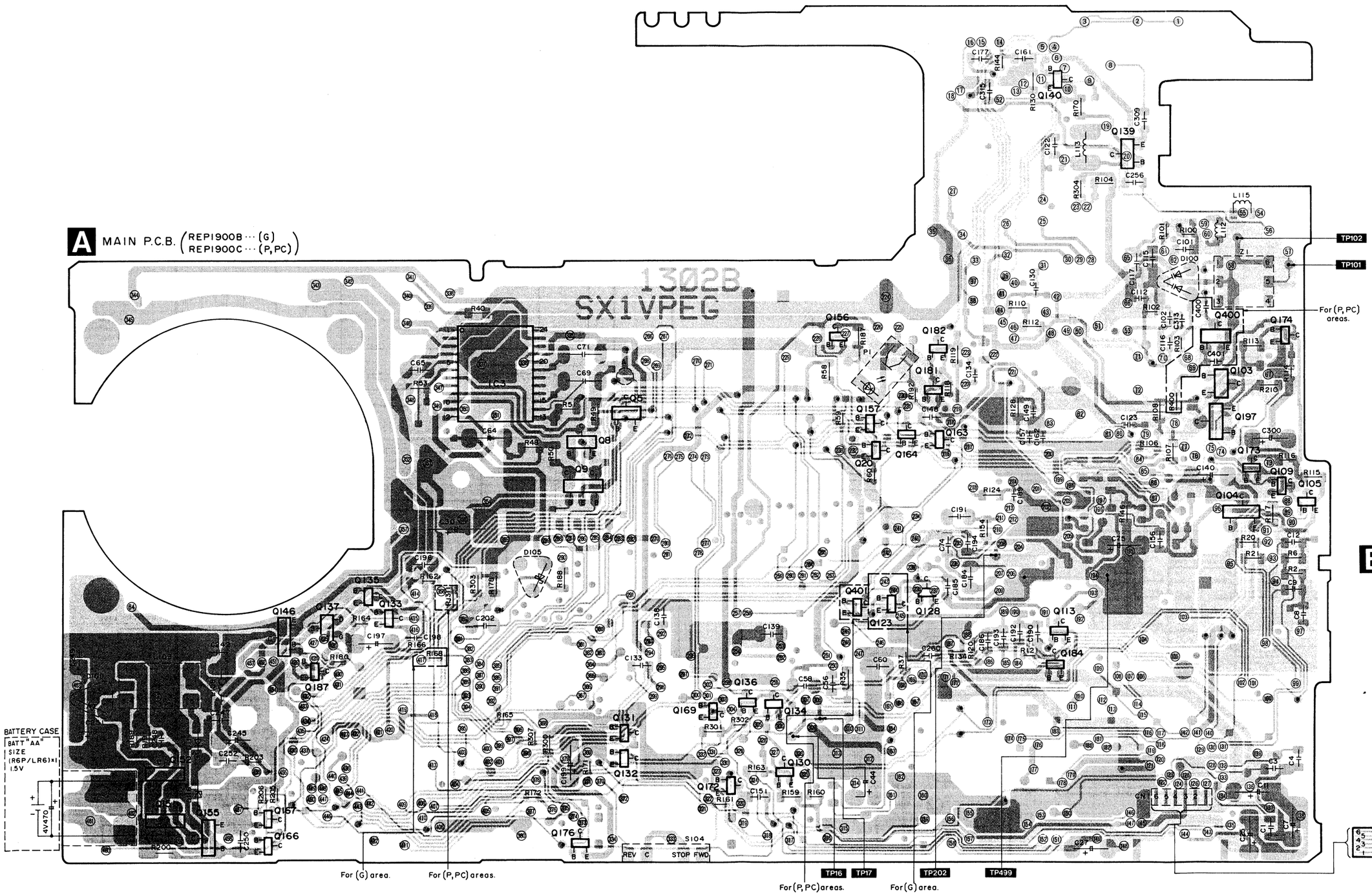


LN1261CTR



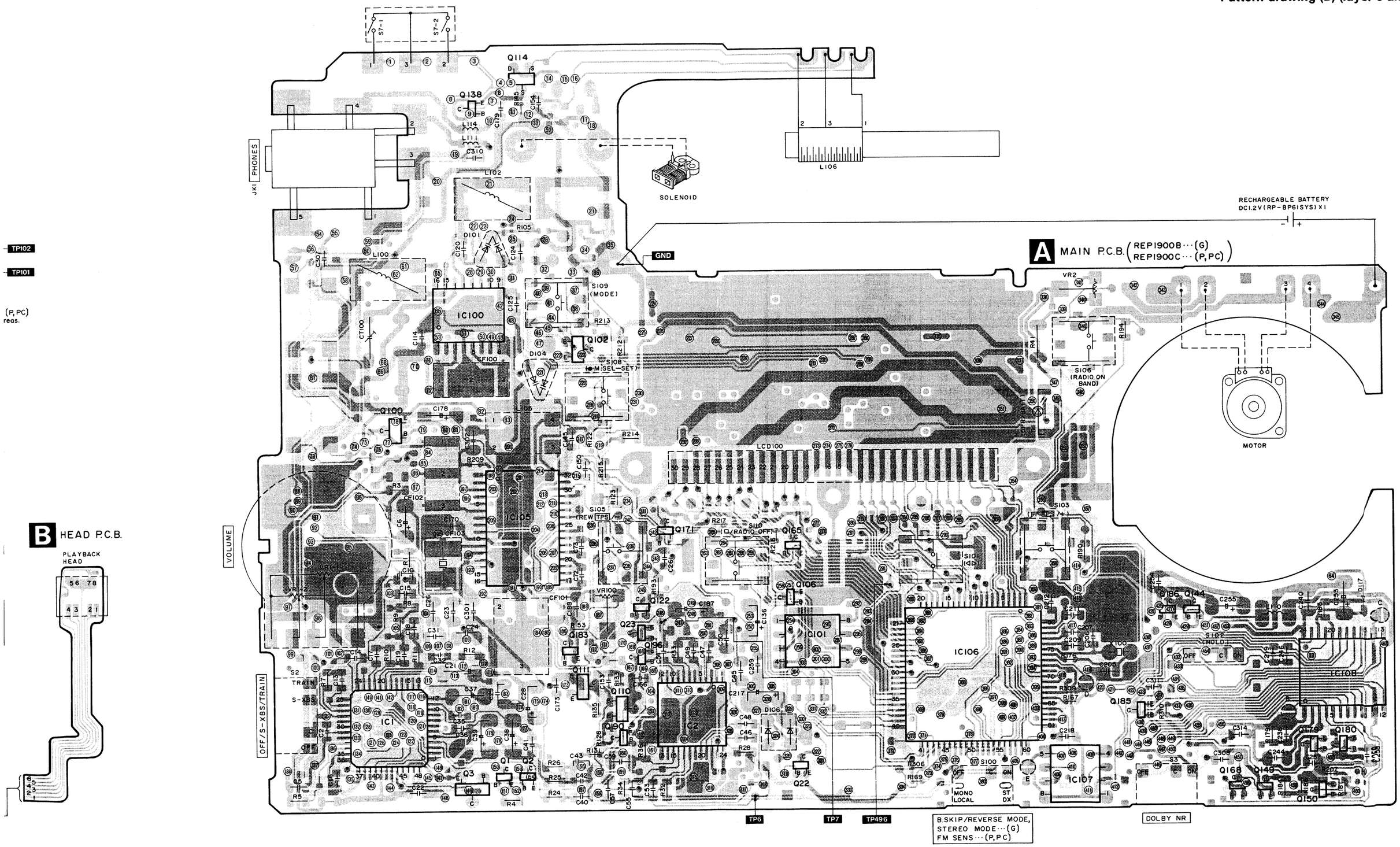
• **Pattern drawing (A) (layer 1 and 2)**

A MAIN P.C.B. (REP1900B ··· (G) / REP1900C ··· (P, PC))



15 16 17 18 19 20 21 22 23 24

• Pattern drawing (B) (layer 3 and 4)



■ SCHEMATIC DIAGRAM (See parts list on pages 33~37)

(The schematic diagram may be modified at any time with the development of new technology.)

Notes:

- **S2** : Tone selector (OFF, S-XBS, TRAIN) switch in "OFF" position.
- **S3** : Dolby Noise Reduction Selector (DOLBY NR) switch in "OFF" position.
- **S7-1** : Tape detector (OPEN/CLOSE) switch in "OPEN" position.
- **S7-2** : Tape detector (METAL/NORMAL) switch in "OFF (METAL)" position.
- **S100** : Stereo mode, reverse mode selector (STEREO MODE (FM SENS.), B. SKIP/REVERSE MODE) switch in " ⮌ " position.
- **S101** : Play, tape direction (◀▶) switch.
- **S102** : Hold (HOLD) switch in "ON" position.
- **S103** : Fast-forward/TPS, + (FF TPS/+) switch.
- **S104** : FWD/REV switch in "FWD" position. (F...FWD, R...REV)
- **S105** : Rewind/TPS, − (REW TPS/−) switch.
- **S106** : Radio on, band select (RADIO ON/BAND) switch.
- **S108** : Memory select, set (• M. SEL ═ SET) switch.
- **S109** : Mode, repeat (MODE) switch.
- **S110** : Stop, radio off (■ RADIO OFF) switch.
- **VR1** : Volume control VR.
- **VR2** : Tape speed adjustment VR.
- **VR100** : FM stereo adjustment VR.
- DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
  No mark...Playback, 〈 〉...FM, ( )...AM
- Battery current ..... Volume MAX [DC 1.5V]
  (Tape playback) (No signal) (400Hz 30%)
  150mA AM...52mA AM... 75mA
  FM...84mA FM...110mA

- **This schematic diagram may be modified at any time with the development of new technology.**

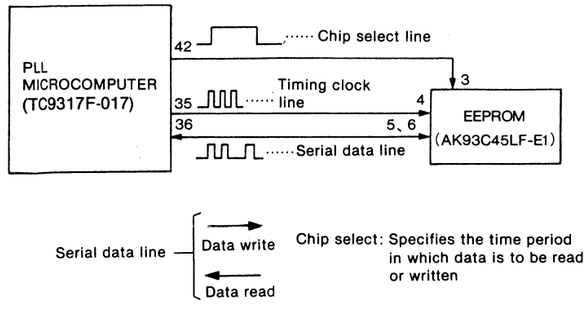
: FM SIGNAL LINE
: FM/AM Vcap SIGNAL LINE
: AM OSC SIGNAL LINE
: FM OSC SIGNAL LINE
: ⊕ B LINE
: MAIN (TAPE/RADIO) SIGNAL LINE
: PLAYBACK SIGNAL LINE

• CHECK POINT OF SIGNAL

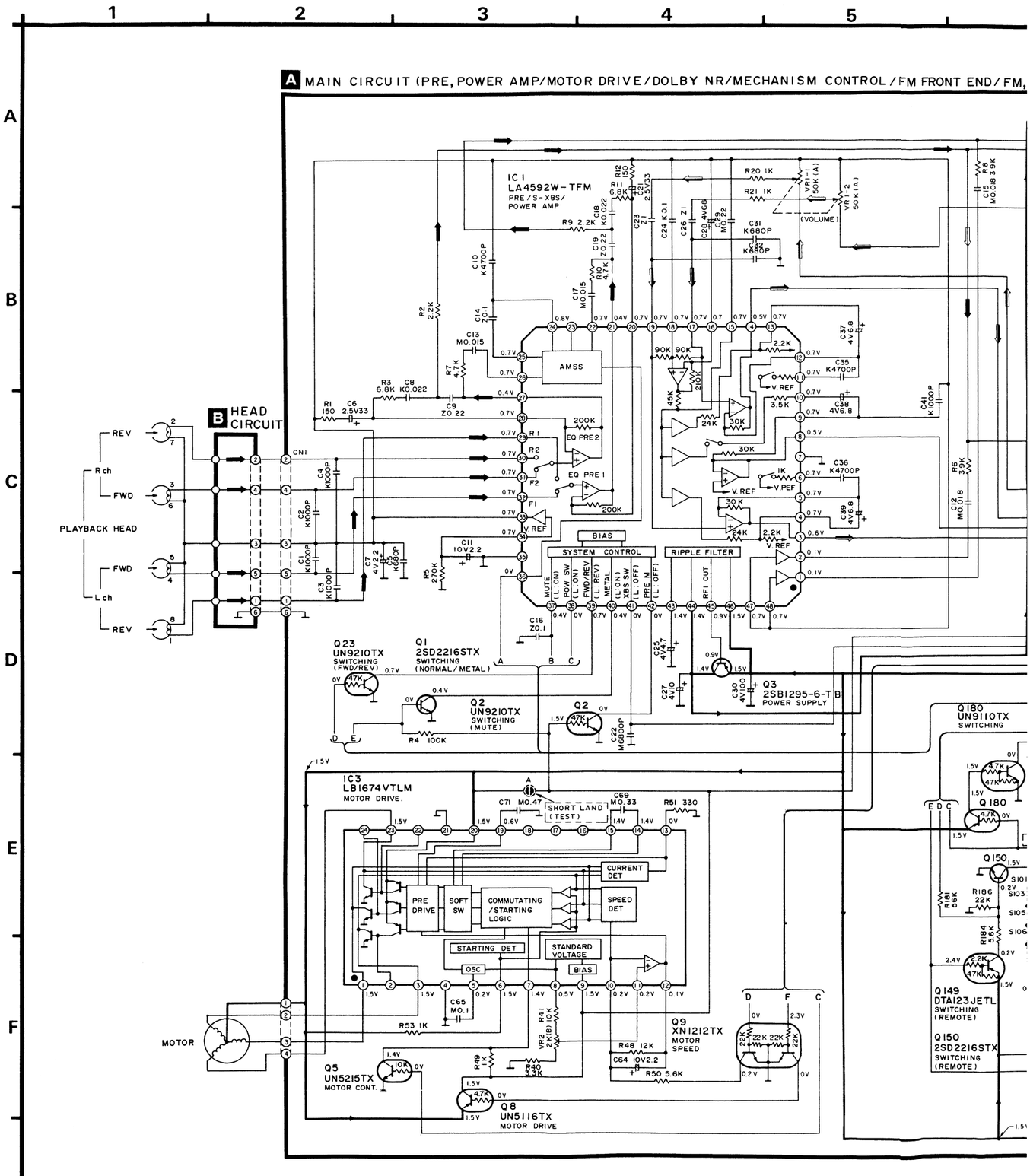
CHECK ITEM		TEST POINT
HEAD → PRE OUTPUT	Lch	TP16
	Rch	TP17
	GND	BATTERY TERMINAL (−)
PRE OUTPUT → DOLBY NR OUTPUT	Lch	TP6
	Rch	TP7
	GND	BATTERY TERMINAL (−)
DOLBY NR OUTPUT → VR INPUT	Lch	VR TERMINAL
	Rch	VR TERMINAL
	COM	VR TERMINAL
VR INPUT → VR OUTPUT	Lch	VR TERMINAL
	Rch	VR TERMINAL
	COM	VR TERMINAL
POWER AMP OUTPUT → HEADPHONE OUTPUT	Lch	HP TERMINAL
	Rch	HP TERMINAL
	COM	HP TERMINAL
DC-DC CONVERTER (BOOSTER)	2.4V OUTPUT	D117 for CATHODE
	GND	BATTERY TERMINAL (−)
PHOTO COUPLER (END)	PULSE OUTPUT	TP496

■ EEPROM (Electrically Erasable Programmable Read Only Memory)

The unit contains a rewritable non-volatile EEPROM (Part No. AK93C45LF-E1), which retains stored data after the unit power is removed.

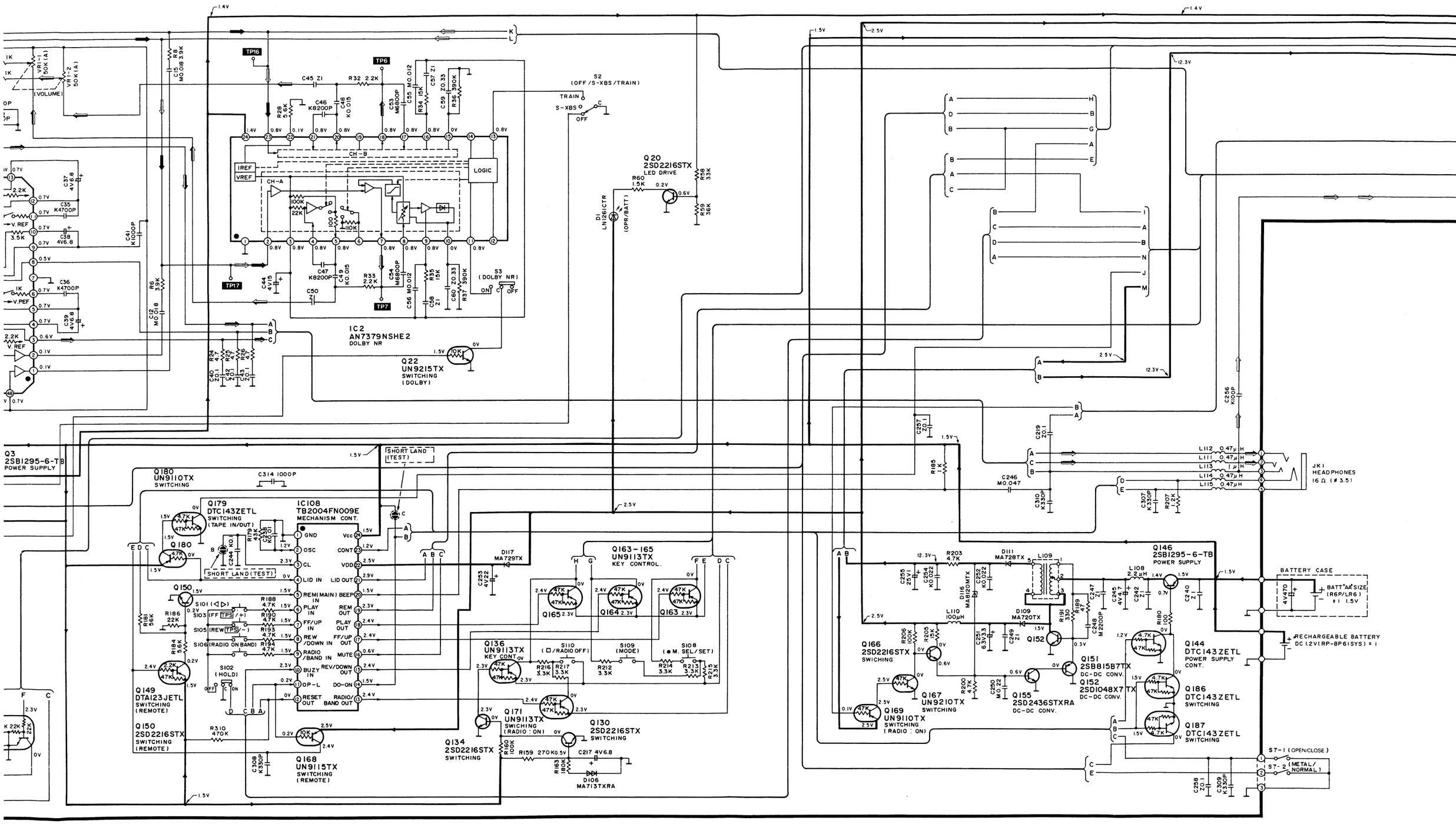


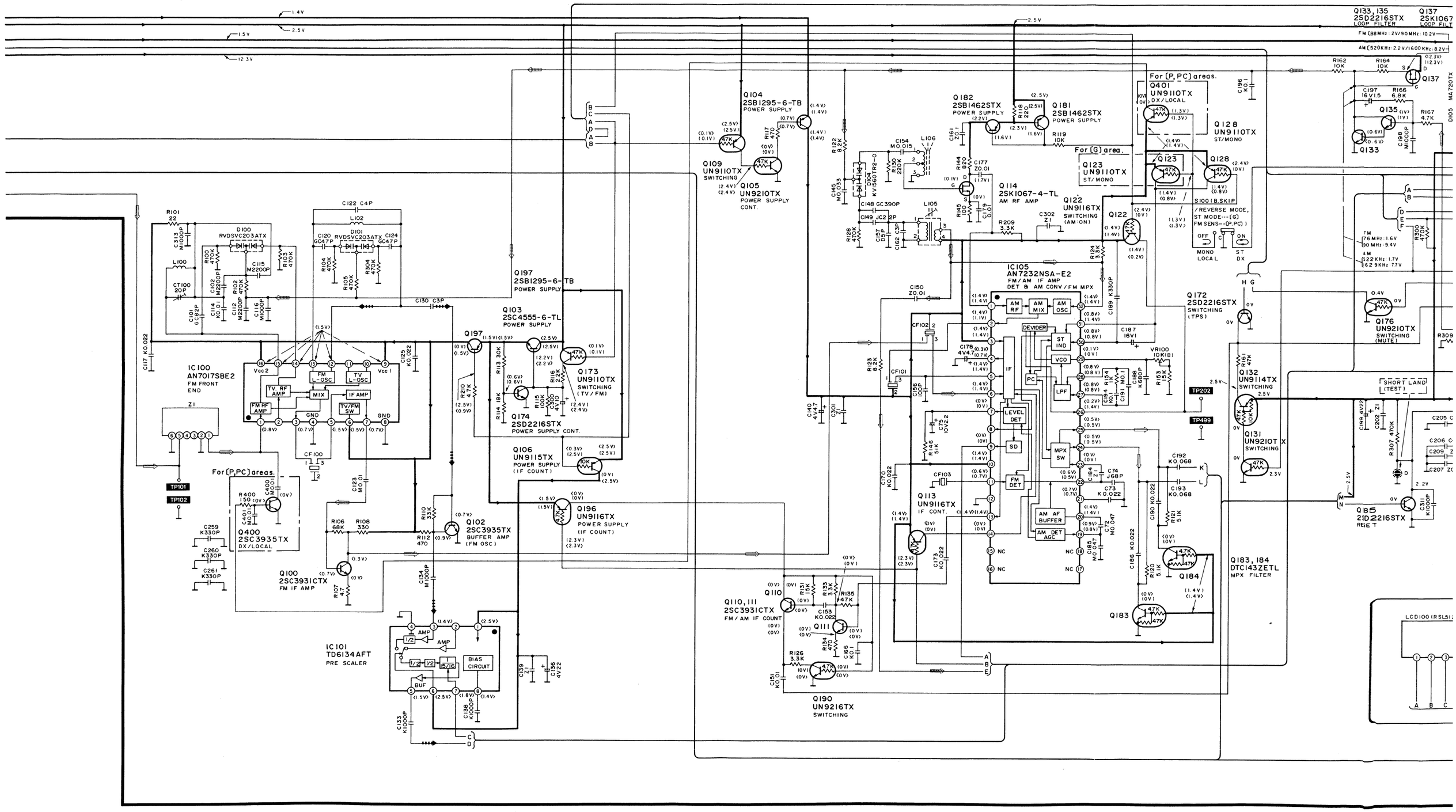
1. The contents of tuner memory (test-state band and frequency), tape counter value and so forth are saved to the EEPROM when the free RAM area is full or a power off process has been completed.
2. If the radio is turned on or a tape play operation is started subsequently, the PLL processor reads the most recent tuner information from the EEPROM and loads it into its internal RAM.
3. This save/load process retains tuner information after the unit power has been switched off.



5 6 7 8 9 10 11 12 13 14 15

HANISM CONTROL / FM FRONT END / FM, AM TUNER / PRE SCALER / SYSTEM CONTROL / EEPROM / REGULATOR)




1.4V
2.5V
1.5V
12.3V
IC100
AN7017SBE2
FM FRONT END
Vcc2
Vcc1
FM L-OSC
TV L-OSC
TV. RF AMP
MIX
IF AMP
FM RF AMP
TV/FM SW
GND
Z1
CF100
TP101
TP102
For (P,PC) areas.
Q400
2SC3935TX
DX/LOCAL
Q100
2SC3931CTX
FM IF AMP
IC101
TD6134AFT
PRE SCALER
AMP
BIAS CIRCUIT
BUF
Q102
2SC3935TX
BUFFER AMP (FM OSC)
Q197
2SB1295-6-TB
POWER SUPPLY
Q103
2SC4555-6-TL
POWER SUPPLY
Q173
UN9110TX
SWITCHING (TV/FM)
Q174
2SD2216STX
POWER SUPPLY CONT.
Q106
UN9115TX
POWER SUPPLY (IF COUNT)
Q196
UN9116TX
POWER SUPPLY (IF COUNT)
Q104
2SB1295-6-TB
POWER SUPPLY
Q109
UN9110TX
SWITCHING
Q105
UN9210TX
POWER SUPPLY CONT.
Q182
2SB1462STX
POWER SUPPLY
Q181
2SB1462STX
POWER SUPPLY
Q114
2SK1067-4-TL
AM RF AMP
Q122
UN9116TX
SWITCHING (AM:ON)
IC105
AN7232NSA-E2
FM/AM IF AMP
DET & AM CONV/FM MPX
Q113
UN9116TX
IF CONT.
Q110, 111
2SC3931CTX
FM/AM IF COUNT
Q190
UN9216TX
SWITCHING
Q401
UN9110TX
DX/LOCAL
Q123
UN9110TX
ST/MONO
Q128
UN9110TX
ST/MONO
Q133, 135
2SD2216STX
LOOP FILT
Q137
2SK1067
LOOP FILT
Q135
Q133
Q184
Q183
Q183, 184
DTC143ZETL
MPX FILTER
Q172
2SD2216STX
SWITCHING (TPS)
Q176
UN9210TX
SWITCHING (MUTE)
Q132
UN9114TX
SWITCHING
Q131
UN9210TX
SWITCHING
Q185
2SD2216STX
RESET
FM (88MHz: 2V/90MHz: 10.2V)
AM (520KHz: 2.2V/1600KHz: 8.2V)
S100 (B.SKIP /REVERSE MODE, ST MODE---(G) FM SENS---(P,PC))
MONO LOCAL
ST DX
SHORT LAND (TEST)
TP202
TP499
LCD100 (RSL51)
DIO5 MA720TX

■TERMINAL FUNCTION OF IC'S

• IC106 (TC9317F-017): System control & LCD drive

Pin No.	Terminal Name	I/O	Function
1 ∫ 3	COM1 ∫ COM3	O	Outputs terminals for LCD common signals
4 ∫ 20	S1 ∫ S17	O	Outputs terminals for LCD segment signals
21 ∫ 30	S18 ∫ S27	O	Outputs terminals for LCD segment signals
31	OPEN KR2	I	Inputs the signal that detects whether the cassette tape is inserted
32	LID KR1	I	Inputs the signal that controls whether the cassette tape is inserted
33	IF SEL	–	Not used, connected to GND
34 ∫ 36	K0 ∫ K2	I	Terminals for key return signal input
37	FWD IN	I	Mechanism det. (FWD) terminal
38	REV IN	I	Mechanism det. (REV) terminal
39 • 40	P1-1 • P1-2	O	Outputs the key scan signal
41	P1-3	O	Outputs the key scan signal
42	P2-0 (SD)	I	LED drive input terminal
43	P2-1 (HOLD)	I	Hold det. input terminal
44	P2-2 (REV. MODE/B.S)	I	Play mode/stereo mode
45	P2-3 (BZY)	O	Beep control output terminal
46	P3-0 (C.S)	O	EEPROM chip select terminal
47	P3-1 (S I/O)	I/O	EEPROM serial data signal
48	P3-2 (S CK)	O	EEPROM timing clock output
49	P3-3 (BEEP)	O	Beep sound output terminal
50	P4-0 (TE LED)	O	Tape end det. drive terminal
51	P4-1 (FM)	–	Not used, open
52	P4-2 (FM)	O	Band select (FM) control terminal
53	P4-3 (AM)	O	Band select (AM) output terminal
54	P5-0 (RADIO)	O	Radio power control terminal
55	P5-1 (POWER)	O	Power control output terminal
56	P5-2 (F/R/ IF REQ)	O	IF count control terminal
57	P5-3 (CCW)	O	Motor control signal (RWD)
58	T-ENDIN	I	Inputs the signal for the detection of tape rotation. When the pulse signal is input: The current mode remains set as the tape is rotating. No pulse signal: Stops or starts reverse playback as the tape has stopped rotating (ie, reached the end).
59	P6-1 (FS)	O	Motor speed control terminal
60	REM IN	I	Remote control signal input
61	P6-3 (MOT)	O	Motor control signal (RWD)
62	MUTE	O	Muting signal output terminal
63	TEST	–	Not used, open
64	IF IN	I	FM/AM IF count signal input
65	SOL	O	Solenoid drive signal output
66	DO2	O	PLL error output terminal
67	HOLD	I	Not used, connected to power supply
68	PSC	O	External pre-scaler divider select control signal ("H": 1/16, "L": 1/15)
69	GND	–	GND terminal
70	FM OSC IN	I	FM programmable counter input terminal
71	AM OSC IN	I	AM local OSC input terminal
72	VDD	I	Power supply terminal
73	RESET	I	Reset signal input
74	XOUT	O	Crystal OSC terminal (F=75kHz)
75	XIN	I	
76	VXT	–	External capacitor connection terminal
77	VLCD	–	External capacitor connection terminal
78 • 79	C1 • C2	–	External capacitor connection terminal
80	Vss	–	External capacitor connection terminal

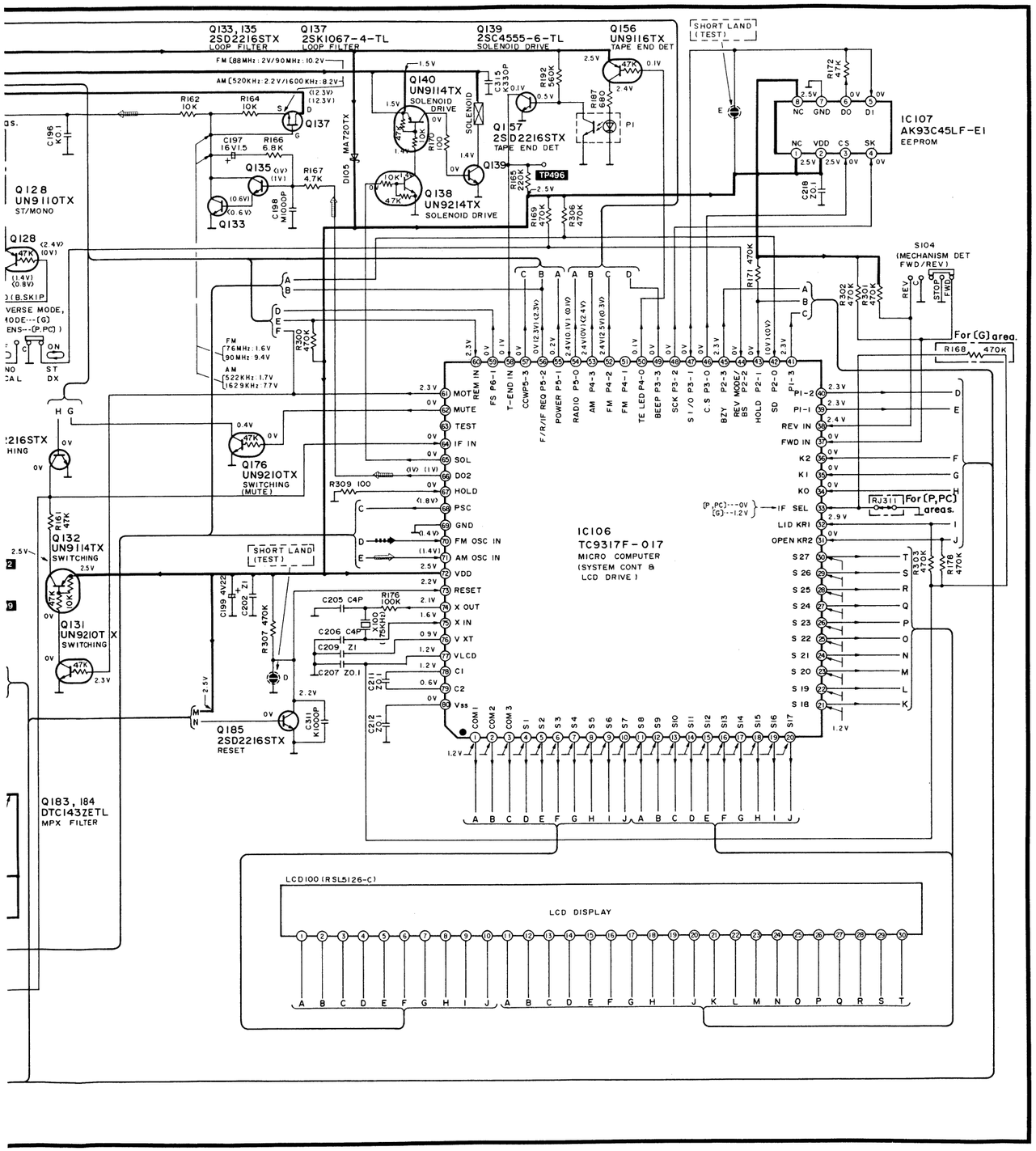
• IC107 (AK93C45LF-E1): EE PROM

Pin No.	Terminal Name	I/O	Function
1	NC	–	—
2	VDD	I	Power supply terminal
3	CS	I	Inputs the chip segment signal
4	SK	I	Inputs the serial clock
5	DI	I	Inputs the serial data
6	DO	O	Outputs the serial data
7	GND	–	GND terminal
8	NC	–	—

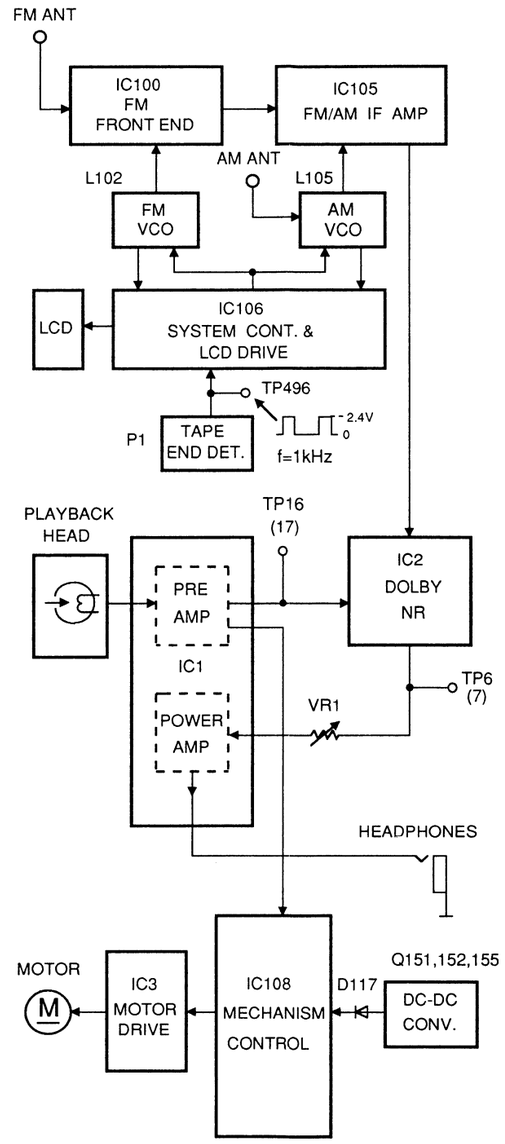
• IC108 (TB2004FN009E): Mechanism control

Pin No.	Terminal Name	I/O	Function
1	GND	–	GND terminal
2	OSC	I/O	System clock terminal fosc=3.2kHz
3	CL	I	Clear terminal
4	LID IN	I	Detection signal whether the cassette tape is inserted
5	REM (MAIN) IN	I	Inputs the remote control signal
6	PLAY IN	I	Inputs the mechanism operation signal (PLAY) At high: PLAY
7	FF/UP IN	I	Inputs the mechanism operation signal (FF) At high: FF
8	REW/ DOWN IN	I	Inputs the mechanism operation signal (REW) At high: REW
9	RADIO/ BAND IN	I	Radio power supply/band SW det. terminal
10	BUZY IN	I	Beep control input terminal
11	OP-LIN	I	Inputs the power switching signal
12	RESET OUT	O	Outputs the reset signal
13	RADIO/ BAND OUT	O	Radio power supply/band SW det. terminal
14	DO ON	O	Power supply control signal
15	REV/ DOWN OUT	O	Output the mechanism operation signal (REW) At high: REW
16	MUTE	O	Outputs the amp. muting signal
17	FF/UP OUT	O	Outputs the mechanism operation signal (FF) At high: FF
18	PLAY OUT	O	Outputs the mechanism operation signal (PALY) At high: PLAY
19	REM OUT	O	Outputs the remote control signal
20	BEEP	O	Outputs the confirming beep when remote control
21	LID OUT	O	Cassette tape install det. signal
22	VDD	I	Power supply terminal
23	CONT	O	Outputs the DC-DC converter drive signal
24	VCC	I	Power supply terminal

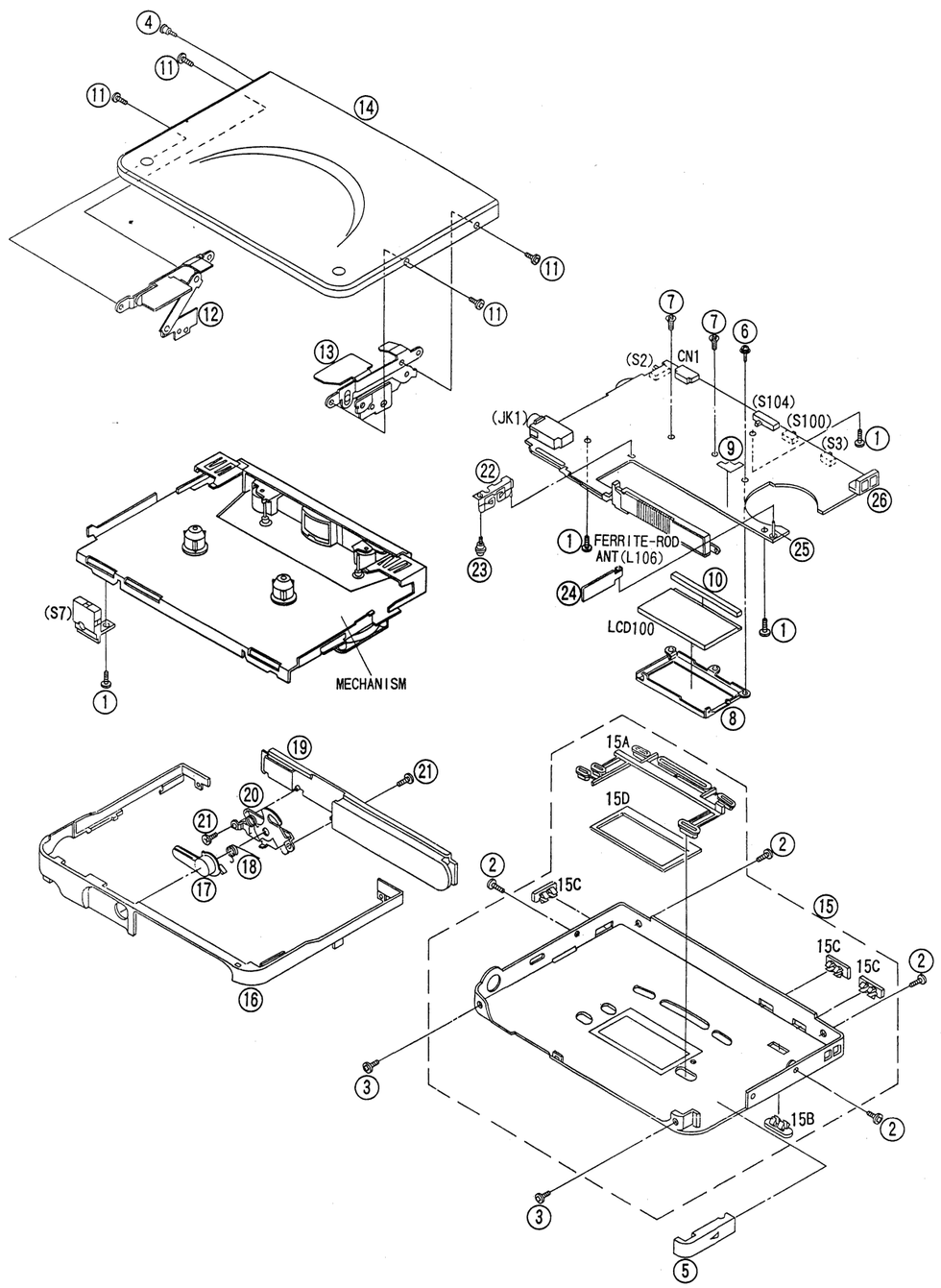
25 26 27 28 29 30 31 32 33 34



■ BLOCK DIAGRAM



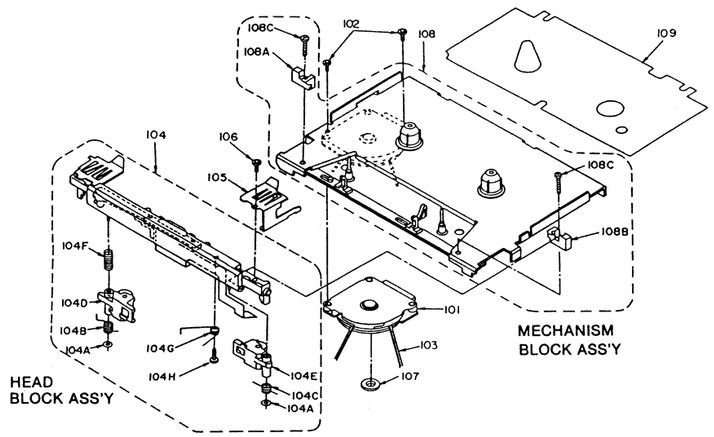
■ CABINET PARTS LOCATION



■ MECHANICAL PARTS LOCATION

	FWD & REV mode
Wow and flutter	0.3% (WRMS)
Pressure of pinch roller	120±20g
Take-up tension	More than 60g
Playback torque	20^{+15}_{-5} g•cm
FF/REW torque	More than 60g•cm

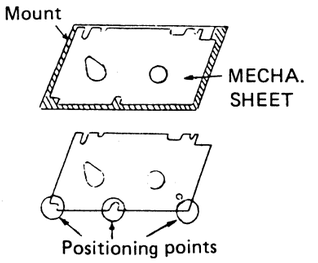
The parts enclosed in the dotted boxes are supplied as a block assembly. Therefore, they are not supplied separately except parts indicated with Ref. No.



■ How to apply the Mechanism Sheet

1. Replacing/Repairing of a mechanism block.
   Replace or repair using a shared mechanism block.(The replacing/repairing procedure remains the same.)
2. If after repairing with a shared mechanism block, a user complains that the mechanism sheet is different from the original, do the following:
   (1) Explain that the number of replacement parts has been consolidated.
   (2) Attach an original mechanism sheet covering the mechanism sheet already attached to the shared mechanism block. (Doubling, doubling does not affect the unit's performance.)
   - Never attach another mechanism sheet to the doubled mechanism sheets.
   - Never remove the already attached sheet. Adhesive material cannot be removed completely.
   - Position the sheet carefully, when attaching it.

■ Attaching instructions

You can attach the mechanism sheet smoothly if you position the attachment line on the side where the head is to be installed.		
Procedure 1: (Preparation)	Peel off the sheet from mount.	
Procedure 2: (Positioning)	Fit the encircled marks of an original sheet with those of sheet already attached.	
Procedure 3: (Attachment)	Attach the sheet.	

Note: AR90IV is used in the mechanism of Model RQ-SX1V. When preparing for service, please check the parts list and order necessary parts.

■ REPLACEMENT PARTS LIST

Notes: *The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RHE5119ZA	SCREW	
2	RHE5155YA	SCREW	
3	RHQ0041-K	SCREW	
4	RHQ0044-K	SCREW	
5	RKKD069-K	BATTERY LID(A)	
6	RHQ0022-S	SCREW	
7	RHQ0034-Y	SCREW	
8	RMA0782	LCD HOLDER	
9	RMR0808-X	SPACER	
10	RSQ0041	CONDUCTIVE RUBBER	
11	RHQ0048-K	SCREW	
12	RXM0050	LINK UNIT(L)	
13	RXM0051	LINK UNIT(R)	
14	RYF0289-K	CASSETTE LID ASS'Y	
15	RYK0468B-K	CABINET ASS'Y	
15A	RGU1039-S	MECHANISM BUTTON	
15B	RGV0110-K	HOLD KNOB	
15C	RGV0115-K	S-XBS/MODE/DOLBY NR KNOB	
15D	RMF0184	DUST PROTECTION SHEET	
16	RGK0627A-S	INTERMEDIATE CABINET	
17	RGV0133-S	OPEN LEVER	
18	RMB0362	AUTO RETURN SPRING	
19	RKQ0161-H	SIDE CABINET	
20	RXQ0358	CAM LOCK UNIT	
21	XQN14+CJ3FZ	SCREW	
22	RJC99004-2	RECHARGEABLE BATT. TER(-)	
23	RHQ0013-1	SCREW	
24	RJC99024	RECHARGEABLE BATT. TER(+)	
25	RJR0012	SHAFT	
26	RJH9206	CONNECTION TERMINAL	
		MECHANISM	
101	HPX-24NB1AT	MOTOR	
102	XQS14+A18FZ	SCREW	
103	RDV0003	BELT	
104	RXQ0387	HEAD BLOCK ASS'Y	
104A	RNW101ZA	WASHER	
104B	RME0125	PINCH ROLLER SPRING(L)	
104C	RME0005	PINCH ROLLER SPRING(R)	
104D	RXL0004-1	PINCH ROLLER ARM(L)	
104E	RXL0005	PINCH ROLLER ARM(R)	
104F	RMB0245	HEAD ARM SPRING(L)	
104G	RME0114	HEAD ARM SPRING(R)	
104H	RHD14032-1	SCREW	
105	RMA0784	HOLDER(R)	
106	XQN14+A3	SCREW	
107	RHW42002-2	WASHER	
108	RFKRQSX3-K	MECHANISM BLOCK ASS'Y	
108A	RMQ0292	HOLD PIECE(L)	
108B	RMQ0293	HOLD PIECE(R)	
108C	RHD14031	SCREW	
109	RKN0077-K	MECHANISM SHEET	
		INTEGRATED CIRCUIT(S)	
IC1	LA4592W-TFM	PRE/S-XBS/POWER AMP	
IC2	AN7379NSHE2	DOLBY B NR	
IC3	LB1674VTLM	MOTOR DRIVE	
IC100	AN7017SBE2	FM FRONT END	
IC101	TD6134AFT	PRE SCALER	
IC105	AN7232NSA-E2	IF MPX	
IC106	TC9317F-017	SYSTEM CONTROL&LCD DRIVE	
IC107	AK93C45LF-E1	EEPROM	
IC108	TB2004FN009E	MECHANISM CONTROL	
		TRANSISTOR(S)	
Q1	2SD2216STX	TRANSISTOR	
Q2	UN9210TX	TRANSISTOR	
Q3	2SB1295-6-TB	TRANSISTOR	
Q5	UN5215TX	TRANSISTOR	
Q8	UN5116TX	TRANSISTOR	
Q9	XN1212TW	TRANSISTOR	
Q20	2SD2216STX	TRANSISTOR	
Q22	UN9215TX	TRANSISTOR	
Q23	UN9210TX	TRANSISTOR	
Q100	2SC3931CTX	TRANSISTOR	
Q102	2SC3935TX	TRANSISTOR	
Q103	2SC4555-6-TL	TRANSISTOR	
Q104	2SB1295-6-TB	TRANSISTOR	
Q105	UN9210TX	TRANSISTOR	
Q106	UN9115TX	TRANSISTOR	
Q109	UN9110TX	TRANSISTOR	
Q110, 111	2SC3931CTX	TRANSISTOR	
Q113	UN9116TX	TRANSISTOR	
Q114	2SK1067-4-TL	TRANSISTOR	
Q122	UN9116TX	TRANSISTOR	
Q123	UN9110TX	TRANSISTOR	(G)

Ref. No.	Part No.	Part Name & Description	Remarks
Q128	UN9110TX	TRANSISTOR	
Q130	2SD2216STX	TRANSISTOR	
Q131	UN9210TX	TRANSISTOR	
Q132	UN9114TX	TRANSISTOR	
Q133-135	2SD2216STX	TRANSISTOR	
Q136	UN9113TX	TRANSISTOR	
Q137	2SK1067-4-TL	TRANSISTOR	
Q138	UN9214TX	TRANSISTOR	
Q139	2SC4555-6-TL	TRANSISTOR	
Q140	UN9114TX	TRANSISTOR	
Q144	DTC143ZETL	TRANSISTOR	
Q146	2SB1295-6-TB	TRANSISTOR	
Q149	DTA123JETL	TRANSISTOR	
Q150	2SD2216STX	TRANSISTOR	
Q151	2SB815B7TX	TRANSISTOR	
Q152	2SD1048X7TX	TRANSISTOR	
Q155	2SD2436STXRA	TRANSISTOR	
Q156	UN9116TX	TRANSISTOR	
Q157	2SD2216STX	TRANSISTOR	
Q163-165	UN9113TX	TRANSISTOR	
Q166	2SD2216STX	TRANSISTOR	
Q167	UN9210TX	TRANSISTOR	
Q168	UN9115TX	TRANSISTOR	
Q169	UN9110TX	TRANSISTOR	
Q171	UN9113TX	TRANSISTOR	
Q172	2SD2216STX	TRANSISTOR	
Q173	UN9110TX	TRANSISTOR	
Q174	2SD2216STX	TRANSISTOR	
Q176	UN9210TX	TRANSISTOR	
Q179	DTC143ZETL	TRANSISTOR	
Q180	UN9110TX	TRANSISTOR	
Q181, 182	2SB1462STX	TRANSISTOR	
Q183, 184	DTC143ZETL	TRANSISTOR	
Q185	2SD2216STX	TRANSISTOR	
Q186, 187	DTC143ZETL	TRANSISTOR	
Q190	UN9216TX	TRANSISTOR	
Q196	UN9116TX	TRANSISTOR	
Q197	2SB1295-6-TB	TRANSISTOR	
Q400	2SC3935TX	TRANSISTOR	(P, PC)
Q401	UN9110TX	TRANSISTOR	(P, PC)
		DIODE (S)	
D1	LN1261CTR	L. E. D.	
D100, 101	RVDSVC203ATX	DIODE	
D104	KV1560TR2-0	DIODE	
D105	MA720TX	DIODE	
D106	MA713TXRA	DIODE	
D109	MA720TX	DIODE	
D111	MA728TX	DIODE	
D116	MA8120MTX	DIODE	
D117	MA729TX	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
		VARIABLE RESISTOR (S)	
VR1	EVUT0VA05A54	VOLUME	
VR2	EVM1YSX50B23	TAPE SPEED ADJUSTMENT	
VR100	EVM1YSX30B14	FM STEREO ADJUSTMENT	
		TRIMMER (S)	
CT100	RCVCTZ20CX	FM RF	
		PHOTO COUPLER (S)	
P1	GP2S27T6	PHOTO COUPLER	
		COIL (S)	
L100	RLA4U011T-M	COIL	
L102	RL04U022T-M	COIL	
L105	RL02U019T-T	COIL	
L106	RLV2N035-0	FERRITE-ROD ANT	
L108	RLQM2R2M-W	COIL	
L109	RL09U021T-M	COIL	
L110	RLQU101KT-W	COIL	
L111, 112	RLQPR47KT-D	COIL	
L113	RLQU1R0MT-W	COIL	
L114, 115	RLQPR47KT-D	COIL	
		COMPONENT COMBINATION (S)	
Z1	RCRBTC002-D	FM B. P. B.	
		FILTER (S)	
CF100	RLFFECWN01AL	FM IF FILTER	
CF101	RLFECFM3450A	AM FILTER	
CF102	RLFFECWN01AL	FM IF FILTER	
CF103	RLFDFC01AL	FM FILTER	
		OSCILLATOR (S)	
X100	RSXD75K0L01	OSCILLATOR (75KHz)	
		L. C. D. (S)	
LCD100	RSL5126-C	L. C. D.	
		SWITCH (ES)	
S2	RSS3A008-A	S-XBS/TRAIN	
S3	RSS2A010-A	DOLBY B NR	
S7	RSH1B010-U1	LEAF (OPEN/CLOSE, TAPE)	

Ref. No.	Part No.	Part Name & Description	Remarks
S100	RSS2A010-A	MODE ST(FM), B. SKIP/REV	
S101	EVQPLMA15	PLAY	
S102	RSS2A010-A	HOLD	
S103	EVQPLMA15	FF/UP	
S104	RSS2A007-A	REV/FWD	
S105	EVQPLMA15	REW/DOWN	
S106	EVQPLMA15	RADIO/BAND	
S108	EVQPLMA15	M. SEL/SET	
S109	EVQPLMA15	MODE	

Ref. No.	Part No.	Part Name & Description	Remarks
S110	EVQPLMA15	STOP/RADIO	
		CONNECTOR(S)	
CN1	RJS2A1606T	CONNECTOR(6P)	
		JACK(S)	
JK1	RJJ35T02-1C	HEADPHONES	

■ RESISTORS AND CAPACITORS

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R1	ERJ3GEYJ151V	1/16W 150
R2	ERJ3GEYJ222V	1/16W 2.2K
R3	ERJ3GEYJ682V	1/16W 6.8K
R4	ERJ3GEYJ104V	1/16W 100K
R5	ERJ3GEYJ274V	1/16W 270K
R6	ERJ3GEYJ392V	1/16W 3.9K
R7	ERJ3GEYJ472V	1/16W 4.7K
R8	ERJ3GEYJ392V	1/16W 3.9K
R9	ERJ3GEYJ222V	1/16W 2.2K
R10	ERJ3GEYJ472V	1/16W 4.7K
R11	ERJ3GEYJ682V	1/16W 6.8K
R12	ERJ3GEYJ151V	1/16W 150
R20, 21	ERJ3GEYJ102V	1/16W 1K
R24-26	ERJ3GEYJ4R7V	1/16W 4.7
R28	ERJ3GEYJ562V	1/16W 5.6K
R32, 33	ERJ3GEYJ222V	1/16W 2.2K
R34, 35	ERJ3GEYJ153V	1/16W 15K
R36, 37	ERJ3GEYJ394V	1/16W 390K
R40	ERJ3GEYJ332V	1/16W 3.3K
R41	RRSN15J103UE	1/20W 10K
R48	ERJ3GEYJ123V	1/16W 12K
R49	ERJ3GEYJ102V	1/16W 1K
R50	ERJ3GEYJ562V	1/16W 5.6K
R51	ERJ3GEYJ331V	1/16W 330
R53	ERJ3GEYJ102V	1/16W 1K

Ref. No.	Part No.	Values & Remarks
R58	ERJ3GEYD333V	1/16W 33K
R59	ERJ2GED363X	2W 36K
R60	ERJ2GEJ152X	2W 1.5K
R100	ERJ2GEJ474X	2W 470K
R101	ERJ2GEJ220X	2W 22
R102, 103	ERJ2GEJ474X	2W 470K
R104	ERJ3GEYJ474V	1/16W 470K
R105	ERJ2GEJ474X	2W 470K
R106	ERJ3GEYJ683V	1/16W 68K
R107	ERJ3GEYJ4R7V	1/16W 4.7
R108	ERJ3GEYJ331V	1/16W 330
R110	ERJ3GEYJ333V	1/16W 33K
R112	ERJ3GEYJ471V	1/16W 470
R113	ERJ3GEYD303V	1/16W 30K
R114	ERJ2GED183X	1/16W 18K
R115	ERJ3GEYJ104V	1/16W 100K
R116	ERJ3GEYJ222V	1/16W 2.2K
R117	ERJ3GEYJ471V	1/16W 470
R118	ERJ2GEJ221X	1/16W 220
R119	ERJ3GEYJ103V	1/16W 10K
R120, 121	ERJ2GEJ512X	1/16W 5.1K
R122	ERJ2GEJ822X	1/16W 8.2K
R123	ERJ3GEYJ822V	1/16W 8.2K
R124	ERJ3GEYJ332V	1/16W 3.3K
R126	ERJ2GEJ332X	1/16W 3.3K
R128	ERJ3GEYJ474V	1/16W 470K
R130	ERJ3GEYJ224V	1/16W 220K
R131	ERJ2GEJ153X	1/16W 15K

Ref. No.	Part No.	Values & Remarks
R133	ERJ2GEJ332X	1/16W 3.3K
R134	ERJ2GEJ471X	1/16W 470
R135	ERJ2GEJ473X	1/16W 47K
R144	ERJ2GEJ821X	1/16W 820
R145	ERJ2GEJ101X	1/16W 100
R146	ERJ3GEYJ513V	1/16W 51K
R153	ERJ2GEJ153X	1/16W 15K
R154	ERJ3GEYJ102V	1/16W 1K
R159	ERJ3GEYD274V	1/16W 270K
R160	ERJ2GEJ104X	1/16W 100K
R161	ERJ2GEJ473X	1/16W 47K
R162	ERJ2GEJ103X	1/16W 10K
R163	ERJ3GEYD184V	1/16W 180K
R164	ERJ2GEJ103X	1/16W 10K
R165	ERJ2GEJ224X	1/16W 220K
R166	ERJ2GEJ682X	1/16W 6.8K
R167	ERJ2GEJ472X	1/16W 4.7K
R168	ERJ2GEJ474X	1/16W 470K (G)
R169	ERJ2GEJ474X	1/16W 470K
R170	ERJ3GEYJ101V	1/16W 100
R171	ERJ2GEJ474X	1/16W 470K
R172	ERJ2GEJ473X	1/16W 47K
R176	ERJ2GEJ104X	1/16W 100K
R178	ERJ3GEYJ474V	1/16W 470K
R179	ERJ3GEYJ433V	1/16W 43K
R180	ERJ2GEJ101X	1/16W 100
R181	ERJ3GEYG563V	1/16W 56K
R184	ERJ3GEYJ562V	1/16W 5.6K

Ref. No.	Part No.	Values & Remarks
R185	ERJ3GEYJ102V	1/16W 1K
R186	ERJ3GEYG223V	1/16W 22K
R187	ERJ3GEYJ681V	1/16W 680
R188	ERJ3GEYJ472V	1/16W 4.7K
R189	ERJ2GEJ470X	1/16W 47
R190	ERJ3GEYJ472V	1/16W 4.7K
R191	ERJ2GEJ331X	1/16W 330
R192	ERJ2GEJ564X	1/16W 560K
R193, 194	ERJ3GEYJ472V	1/16W 4.7K
R200	ERJ3GEYD472V	1/16W 4.7K
R203	ERJ2GEJ472X	1/16W 4.7K
R205	ERJ2GED153X	1/16W 15K
R206	ERJ2GEJ104X	1/16W 100K
R207	ERJ2GEJ122X	1/16W 1.2K
R209	ERJ2GEJ332X	1/16W 3.3K
R210	ERJ3GEYJ472V	1/16W 4.7K
R212	ERJ3GEYJ332V	1/16W 3.3K
R213	ERJ2GEJ332X	1/16W 3.3K
R214, 215	ERJ3GEYJ332V	1/16W 3.3K
R216, 217	ERJ2GEJ332X	1/16W 3.3K
R300, 301	ERJ3GEYJ474V	1/16W 470K
R302	ERJ2GEJ474X	1/16W 470K
R303, 304	ERJ3GEYJ474V	1/16W 470K
R306, 307	ERJ2GEJ474X	1/16W 470K
R309	ERJ2GEJ101X	1/16W 100
R310	ERJ2GEJ474X	1/16W 470K
R400	ERJ3GEYJ151V	1/16W 150 (P, PC)
		CHIP JUMPERS
RJ311	ERJ3GEY0R00V	CHIP JUMPER (P, PC)
		CAPACITORS
C1-4	ECUV1H102KBV	50V 1000P
C5	ECUV1H681KBV	50V 680P
C6	ECST0EY336RR	2.5V 33U
C7	RCSX0GY226RE	4V 22U
C8	ECUV1C223KBV	16V 0.022U
C9	ECUV1C224ZFV	16V 0.22U
C10	ECUV1H472KBV	50V 4700P
C11	ECST1AY225RR	10V 2.2U
C12	ECUV1C183MBV	16V 0.018U
C13	ECUV1E153MBV	25V 0.015U
C14	ECUVNC104ZFV	16V 0.1U
C15	ECUV1C183MBV	16V 0.018U
C16	ECUVNC104ZFV	16V 0.1U
C17	ECUV1E153MBV	25V 0.015U
C18	ECUV1C223KBV	16V 0.022U
C19	ECUV1C224ZFV	16V 0.22U
C21	ECST0EY336RR	2.5V 33U
C22	ECUV1H682MBV	50V 6800P

Ref. No.	Part No.	Values & Remarks
C23	ECUVNC105ZFN	16V 1U
C24	ECUVNE104KBN	25V 0.1U
C25	ECST0GY475RR	4V 4.7U
C26	ECUVNC105ZFN	16V 1U
C27	RCSX0GY106RE	4V 10U
C28	ECST0GY685RR	4V 6.8U
C29	ECUV1C224MBN	16V 0.22U
C30	ECST0GC107ZR	4V 100U
C31, 32	ECUV1H681KBV	50V 680P
C35, 36	ECUV1H472KBV	50V 4700P
C37-39	ECST0GY685RR	4V 6.8U
C40	ECUVNC104ZFV	16V 0.1U
C41	ECUV1H102KBV	50V 1000P
C42, 43	ECUVNC104ZFV	16V 0.1U
C44	RCSX0GY156RE	4V 15U
C45	ECUVNC105ZFN	16V 1U
C46, 47	ECUV1E822KBV	25V 8200P
C48, 49	ECUV1E153KBV	25V 0.015U
C50	ECUVNC105ZFN	16V 1U
C53, 54	ECUV1H682MBV	50V 6800P
C55, 56	ECUV1C123MBV	16V 0.012U
C57, 58	ECUVNC105ZFN	16V 1U
C59, 60	ECUVNC334ZFN	16V 0.33U
C64	ECST1AY225RR	10V 2.2U
C65	ECUVNE104MBN	25V 0.1U
C69	ECUVNC334MBM	16V 0.33U
C71	ECUVNC474MBM	16V 0.47U
C72	ECUV1C473MBV	16V 0.047U
C73	ECUV1C223KBV	16V 0.022U
C74	ECUV1H680JCV	50V 68P
C75	ECST1AY225RR	10V 2.2U
C101	ECUV1H820GCV	50V 82P
C102	ECUE1E222MBQ	25V 2200P
C112	ECUE1E222MBQ	25V 2200P
C114	ECUV1E103KBV	25V 0.01U
C115	ECUV1H222MBV	50V 2200P
C116	ECUE1E102MBQ	25V 1000P
C117	ECUV1C223KBV	16V 0.022U
C120	ECUV1H470GCV	50V 47P
C122	ECUV1H040CCV	50V 4P
C123	ECUE1C103MBQ	16V 0.01U
C124	ECUV1H470GCV	50V 47P
C125	ECUV1C223KBV	16V 0.022U
C130	ECUE1H030CCQ	50V 3P
C133	ECUV1H102KBV	50V 1000P
C134	ECUE1E102MBQ	25V 1000P
C136	ECST0GY226RR	4V 22U
C138	ECUV1H102KBV	50V 1000P
C139	ECUVNC105ZFN	16V 1U
C140	ECST0GY475RR	4V 4.7U
C145	ECUV1C333MBV	16V 0.033U
C148	ECUV1H391GCV	50V 390P

Ref. No.	Part No.	Values & Remarks
C149	ECUE1H220JCQ	50V 22P
C150	ECUV1H103ZFV	50V 0.01U
C151	ECUV1E103KBV	25V 0.01U
C153	ECUV1C223KBV	16V 0.022U
C154	ECUV1E153MBV	25V 0.015U
C156	ECUV1H101KV	50V 100P
C157	ECUE1H050DCQ	50V 5P
C161	ECUVNC104ZFV	16V 0.1U
C162	ECUE1H030CCQ	50V 3P
C166	ECUV1C104KBV	16V 0.1U
C170	ECUV1C223KBV	16V 0.022U
C173	ECUV1C223KBV	16V 0.022U
C177	ECUV1H103ZFV	50V 0.01U
C178	ECST0GY475RR	4V 4.7U
C179	ECUV1E103KBV	25V 0.01U
C184	ECUVNC105ZFN	16V 1U
C185	ECUV1C473MBV	16V 0.047U
C186	ECUV1C223KBV	16V 0.022U
C187	ECST1CY105RR	16V 1U
C188	ECUV1H681KCN	50V 680P
C189	ECUE1E331KBQ	25V 330P
C190	ECUV1C223KBV	16V 0.022U
C191	ECUVNE104MBN	25V 0.1U
C192, 193	ECUV1C683KBV	16V 0.068U
C194	ECUV1C104KBV	16V 0.1U
C196	ECUVNE104KBN	25V 0.1U
C197	ECST1CY155RR	16V 1.5U
C198	ECUE1E102MBQ	25V 1000P
C199	RCSX0GY226RE	4V 22U
C202	ECUVNC105ZFN	16V 1U
C205, 206	ECUV1H040CCV	50V 4P
C207	ECUVNC104ZFV	16V 0.1U
C209	ECUV0J105ZFV	6.3V 1U
C211, 212	ECUVNC104ZFV	16V 0.1U
C217	ECST0GY685RR	4V 6.8U
C218, 219	ECUVNC104ZFV	16V 0.1U
C238	ECUV1E103KBV	25V 0.01U
C240	ECUVNC105ZFN	16V 1U
C242	ECUV0J105ZFV	6.3V 1U
C244	ECUVNE104KBN	25V 0.1U
C245	ECST0GY475RR	4V 4.7U
C246	ECUV1C473MBV	16V 0.047U
C247	ECUV0J105ZFV	6.3V 1U
C248	ECUE1E222MBQ	25V 2200P
C249	ECUVNC105ZFN	16V 1U
C250	ECUV1C224MBN	16V 0.22U
C251	ECST0JY335RR	6.3V 3.3U
C252	ECUV1C223KBV	16V 0.022U
C253	RCSX0GY226RE	4V 22U
C254	ECUV1C223KBV	16V 0.022U
C255	ECST1EY105RR	25V 1U
C256	ECUV1H101KV	50V 100P

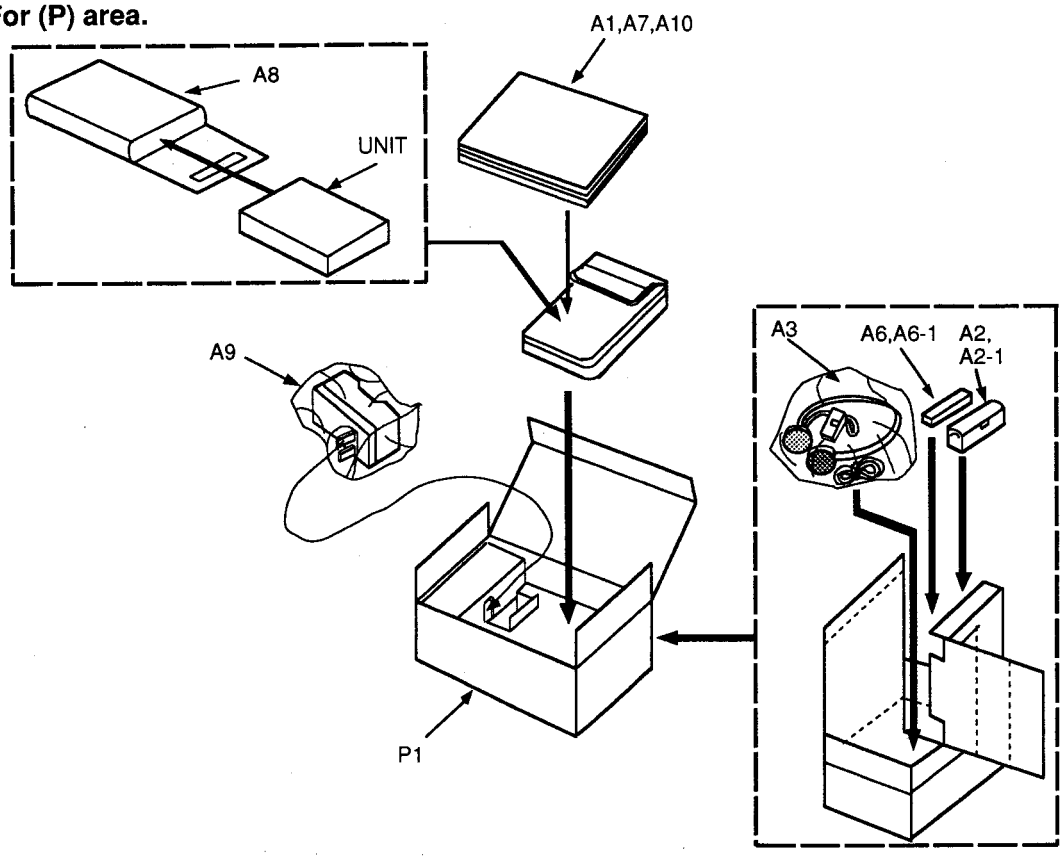
Ref. No.	Part No.	Values & Remarks
C257, 258	ECUVNC104ZFV	16V 0.1U
C259-261	ECUV1H331KBV	50V 330P
C300	RCSX0GY106RE	4V 10U
C301, 302	ECUVNC105ZFN	16V 1U

Ref. No.	Part No.	Values & Remarks
C307-310	ECUV1H331KBV	50V 330P
C311	ECUE1E102KBQ	25V 1000P
C313	ECUE1E102MBQ	25V 1000P
C314	ECUV1H102KBV	50V 1000P

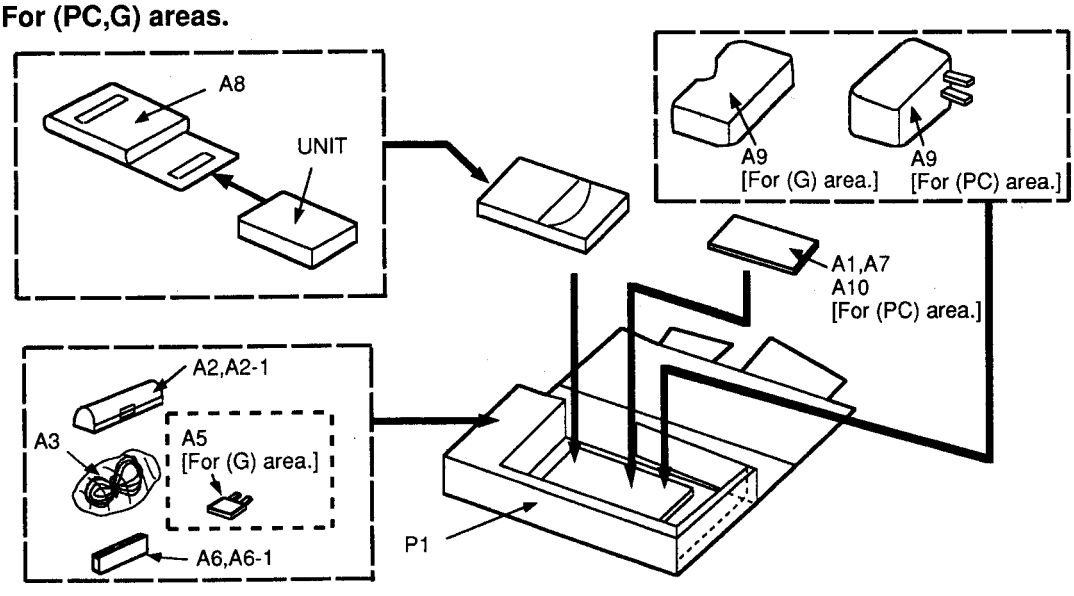
Ref. No.	Part No.	Values & Remarks
C315	ECUV1H331KBV	50V 330P
C400, 401	ECUE1C103MBQ	16V 0.01U (P, PC)

■ PACKAGING

• **For (P) area.**



• **For (PC,G) areas.**



■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIAL	
P1	RPKD514	PACKING CASE	(P)
P1	RPKD515	PACKING CASE	(PC)
P1	RPKD517	PACKING CASE	(G)
		ACCESSORIES	
A1	RFKSQSX1VPC	INSTRUCTION MANUAL ASS'Y	(PC)
A1	RQT2714-P	INSTRUCTION MANUAL	(P)
A1	RQT2716-G	INSTRUCTION MANUAL	(G)
A2	RFA0310-K2	DRY CELL BATTERY CASE	
A2-1	RKKD053-K	BATTERY COVER	
A3	RFEV503PVKS	STEREO HEADPHONES WITH R.C.	(P)
A3	RFEV124PVKS	STEREO EARPHONES WITH R.C.	(PC, G)
A4 ※	RKB2052A-0	EAR PADS	(PC, G)
A5	RJPOK2ZA	AC PLUG ADAPTOR	(G) ⚠
A6	RP-BP61SYS	RECHARGEABLE BATTERY	
A6-1	RFA0475-Q	R. BATTERY CARRYING CASE	
A7	RQX9028ZD	SERVICENTER LIST	(P)
A7	RQX9170ZD	SERVICENTER LIST	(PC)
A7	RQCB0169	SERVICENTER LIST	(G)
A8	RFCD027-K	CARRYING BAG	

Ref. No.	Part No.	Part Name & Description	Remarks
A9	RP-BC156PY	CHARGER	(P) ⚠
A9	RP-BC156PCY	CHARGER	(PC) ⚠
A9	RP-BC161SYB	CHARGER	(G) ⚠
A10	RQA0061	WARRANTY CARD	(P)
A10	RQX7521ZC	WARRANTY CARD	(PC)
		<GREASE OR JIG/TOOL>	
		TEST TAPE	
SA1	QZZCWAT	TAPE SPEED ADJ.	
		ALLEN WRENCH	
SA2	SZZP1101C	ALLEN WRENCH (M2.0)	
		LOCK PAINT	
SA3	RZZOL01	LOCK PAINT	
		<PRINTED CIRCUIT BOARDS ASS'Y>	
PCB1	REP1900C	MAIN P.C.B.	(P, PC) (RTL)
PCB1	REP1900B	MAIN P.C.B.	(G) (RTL)

※ This item is not attached to merchandise, but it is supplied as a replacement part.

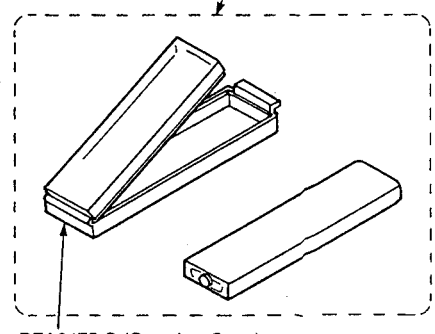
- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

■ SUPPLY OF RECHARGEABLE BATTERY AS REPLACEMENT PARTS

Please take note of the following points relating to Carrying Case to be used for protection of Rechargeable Battery from shorting.

Replacement Parts:
- Rechargeable Battery (RP-BP61SYS) to be supplied will be provided with Carrying Case (RFA0475-Q).
- No replacement parts will be supplied for Rechargeable Battery without Carrying Case.
- Replacement parts will be supplied for Carrying Case (RFA0475-Q) without Rechargeable Battery.
- To your customers, delivery Rechargeable Battery together with Carrying Case to prevent shorting accidents that may occur when Rechargeable Battery is carried about without Carrying Case.

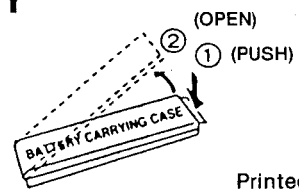
RP-BP61SYS (Rechargeable Battery with Carrying Case)



RFA0475-Q (Carrying Case)

■ CAUTION IN USE OF RECHARGEABLE BATTERY

- Take Rechargeable Battery out of Carrying Case and use it.
- Be sure to carry Rechargeable Battery in this Carrying Case. If not, it may either heat or ignite by shorting with a metal.



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ORDER NO. AD9505148P0
A6

Parts Change Notice

Model No. RQ-SX1V (P, PC, G)/(GH)
RQ-S30 (E, EB, EG)

Please revise the original parts list in the Service Manual to conform to the change (s) shown below. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	*The circled item indicates the reason. If no marking, see the Notes in the bottom column.
1. Improve performance	
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
5. Addition	
6. Deletion	
(7). Correction	
8. Other	

Interchangeability Code	**The circled item Indicates the interchangeability. If no marking, see the Notes in the bottom column.	
	Parts / Unit Production	
A	Original → Late, New → Early	Original or new parts may be used in either early or late production units. Use original parts until the supply is exhausted, then stock new parts.
B	Original → Early, New → Late	Original parts may be used in early production units only. New parts may be used in either or late production units. Use original parts where possible, then stock new parts.
(C)	Original → Late, New → Late	New parts are to be used in both early and late production units. Stock new parts only.
D	Original → Early, New → Late	Original parts must be used in early production units. New parts must be used in late production units only. Stock both original and new parts.
E	Other	

Part Number Information

Model No.	Ref. No.	Original Part No.	**New Part No.**	Notes (*, **)	Part Name & Description	Q'ty	Remarks
JACK							
RQ-SX1V	JK1	RJJ35T02-1C	**RJJ35T02-2C**	7,C	HEADPHONES JACK		
RQ-S30	JK1	RJJ35T02-1C	**RJJ35T02-2C**	7,C	HEADPHONES JACK		

Please file this parts change notice with your copy of the Service Manual for model No. RQ-SX1V (P, PC, G), Order No. AD9412364C7.
RQ-SX1V (GH), Order No. AD9406180C3.
RQ-SX30 (E, EB, GH) Order No. AD9403058C8.

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ORDER NO. AD9502055P0
A1

Parts Change Notice

Model No. RQ-SX1V (P, PC,G) (GH)/RQ-SX3 (E, EB)/RQ-S30 (E, EB, GH)
RQ-S75 (E, EB)/RQ-S25 (E, EB) (GH)/RQ-S50 (E, EB)

Please revise the original parts list in the Service Manual to conform to the change (s) shown below. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change *The circled item indicates the reason. If no marking, see the Notes in the bottom column.

1.	Improve performance
2.	Change of material or dimension
3.	To meet approved specification
(4.)	Standardization
5.	Addition
6.	Deletion
7.	Correction
8.	Other

Interchangeability Code **The circled item Indicates the interchangeability. If no marking, see the Notes in the bottom column.

	Parts	Unit Production	
(A)	Original → Early New → Late		Original or new parts may be used in either early or late production units. Use original parts until the supply is exhausted, then stock new parts.
B	Original → Early New → Late		Original parts may be used in early production units only. New parts may be used in either or late production units. Use original parts where possible, then stock new parts.
C	Original → Early New → Late		New parts are to be used in both early and late production units. Stock new parts only.
D	Original → Early New → Late		Original parts must be used in early production units. New parts must be used in late production units only. Stock both original and new parts.
E	Other		

Part Number Information

Model No.	Ref. No.	Original Part No.	New Part No.	Notes (*, **)	Part Name & Description	Q'ty	Remarks
ACCESSORIES							
RQ-S30/RQ-S75 RQ-S25/RQ-S50	A2	RFA0310-K	**RFA0474-K**	4,A	BATTERY CASE		
RQ-SX1V/RQ-SX3	A2	RFA0310-K2					

Please file this parts change notice with your copy of the Service Manual for model No. RQ-SX1V (P, PC, G), Order No. AD9412364C7.
RQ-SX1V (GH), Order No. AD9406180C3.
RQ-SX3 (E, EB), Order No. AD9406173C2.
RQ-S30 (E, EB, GH), Order No. AD9403528C8.
RQ-S75 (E, EB), Order No. AD9402037C2.
RQ-S25 (E, EB,), Order No. AD9302655C2.
RQ-S25 (GH), Order No. AD9304105A3.
RQ-S50 (E, EB), Order No. AD9306176C2.

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4122[illegible]U001
5011[illegible]U002
4122[illegible]U003
4122[illegible]U004

ORDER NO. AD9505148P0
A6

Parts Change Notice

Model No. RQ-SX1V (P, PC, G)/(GH)
RQ-S30 (E, EB, EG)

Please revise the original parts list in the Service Manual to conform to the change (s) shown below. If new part numbers are shown, be sure to use them when ordering parts.

Reason for Change	*The circled item indicates the reason. If no marking, see the Notes in the bottom column.
1. Improve performance	
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
5. Addition	
6. Deletion	
⑦ Correction	
8. Other	

Interchangeability Code	**The circled item Indicates the interchangeability. If no marking, see the Notes in the bottom column.	
	Parts / Unit Production	
A	Original → Early, New → Late	Original or new parts may be used in either early or late production units. Use original parts until the supply is exhausted, then stock new parts.
B	Original → Early, New → Late	Original parts may be used in early production units only. New parts may be used in either or late production units. Use original parts where possible, then stock new parts.
Ⓒ	Original → Early, New → Late	New parts are to be used in both early and late production units. Stock new parts only.
D	Original → Early, New → Late	Original parts must be used in early production units. New parts must be used in late production units only. Stock both original and new parts.
E	Other	

Part Number Information

Model No.	Ref. No.	Original Part No.	**New Part No.**	Notes (*, **)	Part Name & Description	Q'ty	Remarks
JACK							
RQ-SX1V	JK1	RJJ35T02-1C	**RJJ35T02-2C**	7,C	HEADPHONES JACK		
RQ-S30	JK1	RJJ35T02-1C	**RJJ35T02-2C**	7,C	HEADPHONES JACK		

Please file this parts change notice with your copy of the Service Manual for model No. RQ-SX1V (P, PC, G), Order No. AD9412364C7.
RQ-SX1V (GH), Order No. AD9406180C3.
RQ-SX30 (E, EB, GH) Order No. AD9403058C8.

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